		PERMIT ISSUANCE	PROCESS	PRIMARY		THROUGHPUT			EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID F	FACILITY NAME	DATE	NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION		UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
			Fire Pump Diesel Internal														
	DONLIN GOLD		Combustion								3-HOUR						
*AK-0084 P	PROJECT	6/30/2017	Engines	Diesel	252	hp	Three (3) 252 hp fire pump diesel internal combustion engines.	Good Combustion Practices	3.7	G/KW-HR	AVERAGE	0			(0	
			DFP1-13 - Diesel Fire														
	ST. JAMES		Pump Engine														
*LA-0312 N	METHANOL PLANT	6/30/2017	(EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NSPS Subpart IIII Compliance with NESHAP 40 CFR 63	6.6	LB/HR		0			-	0	
			SCPS					Subpart ZZZZ and NSPS 40 CFR 60									
			Emergency					Subpart IIII, and good combustion									
	ST. CHARLES POWER STATION	8/31/2016	Diesel Firewater	Diesel	282	НР		practices (use of ultra-low sulfur diesel fuel).	1.87	LB/H	HOURLY MAXIMUM	0.47	T/YR	ANNUAL MAXIMUM		G/BHP-H	
LA-0316 F	CAMERON LNG	2/17/2017	firewater pump engines (8 units)	diesel	460	ha		Complying with 40 CFR 60 Subpart IIII							Ι,	2	
	METHANEX -	2/1//201/	Firewater pump	ulesei	400	пр		Comprying with 40 CFK 00 Subpart III							<u> </u>		
	GEISMAR METHANOL PLANT	12/22/2016	Engines (4		007			complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ							l .		
LA-031 / N	METHANOL PLANT	12/22/2016	units)	diesel	896	hp (each)		and 40 CFR 63 Subpart ZZZZ	0						1)	
			Fire Water					Proper operation and limits on hours									
LA-0323 P	MONSANTO LULING		Diesel Pump No. 3 Engine	Diesel Fuel	600	hn	Emergency engine with a limit of 100 hours/yr on operating hours for ready testing.	operation for emergency engines and compliance with 40 CFR 60 Subpart IIII							Ι,	1	
LA-0323 I	LAN	1/3/201/		Diesel I dei	000	пр	nours for ready testing.								<u> </u>		
	MONSANTO LULING		Fire Water Diesel Pump					Proper operation and limits on hours of operation for emergency engines and			1						
LA-0323 P		1/9/2017	No. 4 Engine	Diesel Fuel	600	hp	Emergency Engine limited to 100 hours/yr for ready tests	operation for emergency engines and compliance with 40 CFR 60 Subpart IIII	0		1	0				0	
			Dieself fire								TEST PROTOCOL						
c	GRAYLING		pump engine (EUFIREPUMP				One diesel fire pump engine rated at 400 KW (identified as				WILL SPECIFY						
	PARTICLEBOARD	8/26/2016		Diesel	500	H/YR	EUFIREPUMP in FGRICE).	Certified engines, limited operating hours.	3.53	LB/H	AVG TIME	0			(0	
							A 260 brake horsepower (bhp) diesel-fueled emergency engine										
							manufactured in 2011 or later and a displacement of <10										
			EUFPENGINE				liters/cylinder. Powers a fire pump used for a back up during				TEST PROTOCOL						
			(Emergency engine-diesel				an emergency (EUFPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100	Good combustion practices and meeting			WILL SPECIFY						
MI-0423 I	NDECK NILES, LLC	1/4/2017	fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	NSPS Subpart IIII requirements.	3	G/BHP-H	AVG TIME	0			(0	
			EUFIREPUMP in FGRICE														
	GRAYLING		(Diesel fire				One diesel fire pump engine rated at 400 KW (EUFIREPUMP	Certified engines. Limited operating			TEST PROTOCOL						
MI-0425 P	PARTICLEBOARD	5/9/2017	pump engine) EUFPENGINE	Diesel	500	H/YR	in FGRICE).	hours.	3.53	LB/H	SHALL SPECIFY	0			(0	
N	MEC NORTH, LLC		(South Plant):				A 300 HP diesel-fired emergency fire pump engine with a										
	AND MEC SOUTH		Fire pump				model year of 2011 or later, and a displacement of <30	Good combustion practices and meeting							l .		
*MI-0433 L	LLC	6/29/2018	engine EUFPENGINE	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	NSPS Subpart IIII requirements.	3	G/BHP-H	HOURLY	0			1 '	0	
	MEC NORTH, LLC		(North Plant):				A 300 HP diesel-fired emergency fire pump engine with a										
*MI-0433 I.	AND MEC SOUTH	6/29/2018	Fire pump	Diesel	300	LID	model year of 2011 or later, and a displacement of <30 liters/cylinder. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS Subpart IIII requirements.	,	G/BHP-H	HOURLY				Ι,	2	
WII-0433 L	LLC .	0/29/2018	EUFIREPUMPE	Diesei	300	III		NSF3 Subpart in requirements.	-	G/BHF-H					<u> </u>		
	T AT BOOK		NGS (2				EUFIREPUMPENGS - Two (2) diesel-fueled emergency fire				HOURLY; EACH ENGINE			HOURLY: EACH			
*MI-0434 /	FLAT ROCK ASSEMBLY PLANT	3/22/2018	emergency fire pump engines)	Diesel	250	ВНР	pump engines rated at 250 brake horsepower (BHP). No add- on control.	Good combustion practices.	3	G/B-HP-H	(NMHC+NOX)	2.8	LB/H	ENGINE (NOX)	(0	
							A 399 brake HP diesel-fueled emergency fire pump engine				Ĭ			` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			
	BELLE RIVER COMBINED CYCLE		EUFPENGINE: Fire pump				with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 3 certified engine				1						
	POWER PLANT	7/16/2018		Diesel	399	BHP	subject to NSPS IIII.	State of the art combustion design.	4	G/KW-H	HOURLY	0				0	
			DIESEL-FIRED														
c	GREENSVILLE		WATER PUMP	DIESEL													
	POWER STATION	6/17/2016	376 bph (1)	FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total)	Good Combustion Practices/Maintenance	0			0			-	0	
	KENAI NITROGEN OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	2.7 MMBtu/hr Diesel Fired Well Pump. Installed in 1966.	Limited Operation of 168 hr/yr.	4.41	LB/MMBTU	1	0			(
В	BLYTHE ENERGY														<u> </u>		
	PROJECT II VICTORVILLE 2	4/25/2007	FIRE PUMP EMERGENCY	DIESEL	303	HP		OPERATIONAL RESTRICTION OF 50	7.5	LB/H	-	0			-	0	
H	HYBRID POWER		FIREWATER				135 KW (182 hp) IC Diesel-fired Emergency Firewater Pump	HR/YR, OPERATE AS REQUIRED FOR									
CA-1191 P	PROJECT	3/11/2010	PUMP ENGINE EMERGENCY	DIESEL	135	KW	Engine	FIRE SAFETY TESTING EQUIPPED W/ A TURBOCHARGER	3.8	G/KW-HR		2.8	G/B-HP-H		-	0	
1	AVENAL ENERGY		FIREWATER					AND AN			1						
CA-1192 P	PROJECT	6/21/2011	PUMP ENGINE	DIESEL	288	HP		INTERCOOLER/AFTERCOOLER	3.4	G/B-HP-H		0			(0	
	MOUNTAINVIEW POWER COMPANY		EMERGENCY FIRE IC								1						
CA-1213 L		4/21/2006		DIESEL	375	ВНР			0			0			(0	
r	PALM BEACH		Two emergency				The permittee is authorized to construct a 1,000 gallon tank to	demonstrate compliance in accordance									
	RENEWABLE		diesel firewater				store ULSD fuel oil for use in the emergency diesel firewater	with the procedures given in 40 CFR 60,			1						
	ENERGY PARK		pump engines		250		pump engines.	Subpart IIII	1	G/B-HP-H	1		1	1	1		1

RBLCID	FACILITY NAME		PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
RBECID	PACIEITINAME	DATE	IVAINE	FOLL	TIIROCGIII CT	Citi	I ROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT	CHIS	AVERAGE OF 3	LIMIT 2	OMIS	CONDITION	Livili	CHIS	СОМИНОМ
TA 0105	IOWA FERTILIZER COMPANY	10/26/2012	Ciro Duma	diesel fuel	1.4	GAL/H	rated @ 235 KW	good combustion practices	2.75	G/KW-HR	STACK TEST RUNS	0.46	T/YR	ROLLING 12 MONTH TOTAL	l ,		
14-0103				dieser ider		GALII		TIER 3 ENGINE-BASED	3.73	G/RW-IIIC	KONS	0.17	1/110	MONTHIOTAL	<u> </u>	1	
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	4	G/KW-HR	NOX+NMHC		,		١.,		
	CRONUS		Firewater Pump					Tier IV standards for non-road engines at									
*IL-0114	CHEMICALS, LLC	9/5/2014	TWO (2)	oil	373	hp		40 CFR 1039.102, Table 7.	3.5	G/KW-HR		()		1)	
	OT LOGENI EVEGNA		FIREWATER PUMP DIESEL				THE TWO FIREWATER PUMP ENGINES, IDENTIFIED AS	COMPAGE OF PROJECT CONTROLS					HOURS OF				
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC		ENGINES	DIESEL	371	BHP, EACH	FP01 AND FP02, EXHAUSTING THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	3	G/B-HP-H	3 HOURS	500	OPERATION	YEARLY			
	MIDWEST FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR.										
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP		500	HP	INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	()				
			DIESEL-FIRED														
	OHIO VALLEY		EMERGENCY														
*IN-0179	RESOURCES, LLC MIDWEST	9/25/2013	WATER PUMP	OIL	481	BHP	ANNUAL OPERATION LIMITED TO 200 HR,	GOOD COMBUSTION PRACTICES	2.86	G/B-HP-H	3-HR AVERAGE	(-	-		
	FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR.										
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		500	HP	INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	(1)	
	CRESCENT CITY		DIESEL FIRED					GOOD ENGINE DESIGN AND PROPER			HOURLY			ANNUAL			ANNUAL
LA-0192	POWER	6/6/2005	WATER PUMP				425 HP	OPERATING PRACTICES	8.9	LB/H	MAXIMUM	0.23	T/YR	MAXIMUM	9.:	G/B-HP-H	AVERAGE
								USE OF LOW-SULFUR FUELS,									
LA-0224	ARSENAL HILL POWER PLANT		DFP DIESEL FIRE PUMP	DIESEL	310	HP	EQT-016	LIMITING OPERATING HOURS AND PROPER ENGINE MAINTENANCE	9.61	LB/H	MAX)				
	ELODAN DIG		r: n														
LA-0251	FLOPAM INC. FACILITY		Fire Pump Engines - 2 units	diesel	444	hp	each		5.82	LB/H		0.29	T/YR			G/HP-H	(NOX + NMHC)
	SALEM HARBOR STATION		Fire Pump				≤ 300 hours of operation per 12-month rolling period				1 HR BLOCK			1 HR BLOCK			
*MA-0039	REDEVELOPMENT	1/30/2014	Engine	ULSD	2.7	MMBtu/hr	S in ULSD: ≤0.0015% by weight		3	G/B-HP-H	AVG	2.44	LB/H	AVG)	
			INTERNAL COMBUSTION														
			ENGINE -														
			EMERGENCY FIRE WATER														
MD-0040	CPV ST CHARLES	11/12/2008	PUMP	DIESEL	300	HP			3	G/B-HP-H		())	
			EMERGENCY DIESEL	ULTRA-				EXCLUSIVE USE OF ULSD FUEL,									
			ENGINE FOR	LOW				GOOD COMBUSTION PRACTICES,									
*MD-0041	CPV ST. CHARLES	4/23/2014	FIRE WATER PUMP	SULFUR DIESEL	300	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	AND LIMITING THE HOURS OF OPERATION	3	G/B-HP-H	N/A		,		١.,		
			EMERGENCY DIESEL														
	WILDCAT POINT		ENGINE FOR	ULTRA LOW				LIMITED OPERATING HOURS, USE									
***********	GENERATION		FIRE WATER	SULFUR	477	· · ·	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL	OF ULTRA- LOW SULFUR FUEL AND		C/D UD U		l .	CASTA II				
*MD-0042	FACILII Y	4/8/2014	EMERGENCY	DIESEL	477	nr	FUEL, GOOD COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES	1 3	G/B-HP-H		-	G/KW-H	 	<u> </u>	1	
	PERRYMAN		DIESEL ENGINE FOR	ULTRAL LOW				GOOD COMBUSTION PRACTICES,									
	GENERATING		FIRE WATER	SULFUR			40 CFR 60, SUBPART IIII, GOOD COMBUSTION	LIMITED HOURS OF OPERATION,									
*MD-0043	STATION	7/1/2014	PUMP 5	DIESEL	350	HP	PRACTICES	AND EXCLUSIVE USE OF ULSD	3	G/B-HP-H	-	4	G/KW-H	-	1 '		
			EMERGENCY	ULTRA													
	COVE POINT LNG		FIRE WATER PUMP	LOW SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL	GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE									
*MD-0044	TERMINAL		ENGINES	DIESEL	350	HP	FUEL, GOOD COMBUSTION PRACTICES	EMISSION LIMIT	3	G/B-HP-H	NOX + NMHC	4	G/KW-H	NOX + NMHC	"		
											TEST PROTOCOL;						
*MI-0400	WOLVERINE POWER	6/29/2011	Fire Pump	Diesel	420	HP	Maximum operation was based on 500 hours per year. This is a diesel fuel fired emergency backup fire mump. It has		3	G/B-HP-H	BACT/SIP/NSPS	('		
							a capacity of 315 hp, nameplate, and uses diesel fuel ASTM										
			EU-FPENGINE: Diesel fuel fired				D975 Grade 2-D S15.										
	THETFORD		emergency				Ultra low sulfur diesel fuel (15ppmw); 100 hours per year				TEST PROTOCOL						
#MT 0410	GENERATING STATION		backup fire	4:1 61		h	operation for maintenance and readiness testing. NSPS IIII and NESHAP ZZZZ.			G/B-HP-H	WILL SPECIFY AVG. TIME.					,	
*MI-0410	STATION	//25/2013	pump	diesel fuel	313	hp nameplate	A 165 hoursepower (hp) diesel-fueled emergency engine	sulfur diesel fuel.	3	G/B-HP-H	AVG. HME.	-	1	 	<u> </u>	1	
	HOLLAND BOARD		Emergency				manufactured in 2013, iwth a heat input of 1.35 MMBTU/hr. Powers a fire pump used for back up during an emergency										
	OF PUBLIC WORKS -		EngineDiesel Fire Pump				(EUFPENGINE). Restricted to 500 hours/year on a 12-month										
*MI-0412	EAST 5TH STREET	12/4/2013	(EUFPENGINE)	Diesel	165	HP	rolling time period basis.	Good combustion practices	3	G/B-HP-H	TEST PROTOCOL	(L)	

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
			IC ENGINE,														
	FORSYTH ENERGY		EMERGENCY FIREWATER	DIESEL													calculated, assumes
NC-0101	PLANT PSEG FOSSIL LLC	9/29/2005	PUMP	FUEL	11.4	MMBTU/H	usage limited to 200 h/yr		36.48	LB/H		()		7.7	G/B-HP-H	48% efficiency
	SEWAREN			Ultra Low			The fire pump has a maximum heat input rate of 2.63										
*NIL0081	GENERATING STATION	3/7/2014	Emergency diesel fire pump	Sulfur Distillate oil		,	MMBtu/hr (approximately 250 HP) and is permitted for 100 hrs per year for testing and maintenance		1.75	LB/H							
143-0001	BIATION	3/1/2014	dieser me pump	Distillate on			SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-		1.7.5	LDFT		(
							RESETTABLE HOUR METER PRIOR TO STARTUP PER 40										
							CFR 60.4209(A)	GOOD COMBUSTION PRACTICES,									
								GOOD ENGINE DESIGN, IGNITION									
	OHIO RIVER CLEAN		FIRE PUMP	DIESEL			CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR	TIMING RETARD, TURBOCHARGER, AND LOW-TEMPERATURE			FOR EACH			PER ROLLING 12-			FOR NMHC AND NOX COMBINED
OH-0317	FUELS, LLC	11/20/2008	ENGINES (2)	FUEL OIL	300	HP	AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	AFTERCOOLER	4.89	LB/H	ENGINE	1.23	T/YR	MONTH PERIOD	7.8	G/HP-H	95% NOX
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency fire pump engine	diesel	300	HP	223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per rolling 12 months.	Purchased certified to the standards in NSPS Subpart IIII	1.7	LB/H		0.43	T/YR	PER ROLLING 12- MONTHS	0	,	SEE NOTES
			EMERGENCY FIRE PUMP	LOW													
	CHOUTEAU POWER		(267-HP	SULFUR													
OK-0129	PLANT MOXIE LIBERTY	1/23/2009	DIESEL)	DIESEL	267	HP			4.59	LB/H		7.8	G/B-HP-H	NSPS	0		
	LLC/ASYLUM						The fire pump will be restricted to operate not more than 100										
PA-0278	POWER PL T MOXIE ENERGY	10/10/2012	Fire Pump Fire Pump	Diesel	C	1	hr/yr.		2.6	G/B-HP-H		2.6	LB/H		2.6	G/B-HP-H	
	LLC/PATRIOT GENERATION PLT	1/31/2013	Engine - 460	n: 1					2.0	G/B-HP-H	EXPRESSED AS NO2		LB/H		0.12	T/YR	
*PA-0286	GENERATION PLI	1/31/2013	ВНР	Diesel		1			2.6	G/B-HP-H	NO2	2.0	LB/H		0.13	I/YK	
			EMERGENCY	ULTRA LOW													
	HICKORY RUN		FIREWATER	SULFUR										12 MONTH			
*PA-0291	ENERGY STATION	4/23/2013	PUMP	DISTILLATE	3.25	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		1.86	LB/H		0.09	T/YR	ROLLING TOTAL	0		
	BERKS HOLLOW										BASED ON 12-						
*PA-0296	ENERGY ASSOC LLC/ONTELAUNEE	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr			0.09	T/YR	MONTH ROLLING TOTAL		,		0	,	
	ENERGY ANSWERS ARECIBO PUERTO		Emergency				The Emergency Fire Pump is rated at 335 BHP and limited to										
	RICO RENEWABLE		Diesel Fire	ULSD Fuel			500 hr/yr (emergency operations and testing and maintenance,										
*PR-0009	ENERGY PROJECT	4/10/2014	Pump	Oil #2	C		combined). THE CONSTRUCTION PERMIT AUTHORIZES THE		2.85	G/B-HP-H		2.1	LB/H		0		
							CONSTRUCTION OF ONE (1) FIRE PUMP. THIS										
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	FIRE PUMP	DIESEL	500	HP	PROCESS AND POLLUTANT INFORMATION IS FOR THIS ONE SINGLE FIRE PUMP.	PURCHASE OF CERTIFIED ENGINE BASED ON NSPS, SUBPART IIII.	4	G/KW-HR			,		0	,	
	,						The process includes 1 emergency generator and 4 emergency	,									
							firewater pump engines. The sulfur in the diesel fuel will meet										
							the sulfur requirement of 15 ppm in 40 CFR 80.510(b).										
	NATURAL GAS		Emergency	Ultra-low			The emissions from each engine result from weekly testing										
*TX-0706	FRACTIONATION MOUNDSVILLE	1/23/2014	Engines	sulfur diesel	0		which will occur 52 hours a year for each engine.		0.33	T/YR		(0		
	COMBINED CYCLE POWER PLANT		Fire Pump													G/HP-HR	NMHC + NOX
*WV-0025	CHEYENNE PRAIRIE	11/21/2014	Diesel Fire	Diesel	251	HP	Limited to 100 Hours/year.		0			(3	G/HP-HR	NMHC + NOX
*WY-0070	GENERATING STATION	8/28/2012	Pump Engine (FP16)	Ultra Low Sulfur Diesel	327	hn		EPA Tier 3 rated								,	
**1-00/0	MIDWEST	0/20/2012			32/			LITTER STREET	<u> </u>			<u> </u>			T .		
*IN-0180	FERTILIZER CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	OPERATION NOT TO EXCEED 500 HOURS PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE		,		0	,	
	DETROIT EDISON						Fact and a second of 252 HD. The second district day							ODS & ODA E A CIL			
	DETROIT EDISON MONROE	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	252	HP	Each pump engine is 252 HP. They are limited to emergency use and subject to NSPS Subpart IIII.	Good combustion practices.	7.8	G/B-HP-H	QP1&QP2 EACH; TEST PROTOCOL	3	G/B-HP-H	QP3&QP4 EACH; TEST PROTOCOL	0		
	MIDWEST FERTILIZER		RAW WATER	DIESEL, NO.			OPERATION NOT TO EXCEED 500 HOURS PER YEAR.										
*IN-0173	CORPORATION	6/4/2014		2	500	HP	INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.83	G/B-HP-H	3-HR AVERAGE	(0		
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel		_		Clean Fuel	3.44	lb/MMBtu	3-hr block average		lbs/hr	3-hour block average			
				Ultra Low													
	Catoctin Power LLC Footprint Power Salem		Firewater Pump	Sulfur Diesel	370	kW		Good Combustion Practices	11.5	LB/H	3-hr average	100	hr/yr				
	Harbor Development		Eino Dur	III en	90	MMBtu/hr		Dinalina quality NG	2.44	LB/H	1 he orror		a/hn b-	1 be aware			
	Footprint Power Salem		Fire Pump	ULSD	00	IVEVIDUU/III		Pipeline quality NG	2.44	LD/II	1-hr average	1	g/hp-hr	1-hr average			
	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	4	g/KW-hr	1-hr average						
	12.2		r ne r ump	10200		IBrown	1	Is specime quanty 110	, ,	15/ AC 11-III	average	-		1	-		-

RBLCID			PRIMARY FUEL		THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1			EMISSION LIMIT 2		AVG TIME	STANDARD EMISSION LIMIT	AVG TIME CONDITION
	CPV Valley Energy Center Wawayanda, NY	Fire Pump	ULSD	325	bhp		Good combustion controls.	0.857	lb/MMBtu	1-hr average					
	Cricket Valley Energy Center		ULSD	2.8	MMBtu/hr				lb/MMBtu	.,	2.6	g/hp-hr			
	Pioneer Valley Energy Center	Fire Pump	ULSD	270	HP			4	g/KW-hr						
	Hess Newark Energy Center Woodbridge Energy		ULSD Ultra Low	270	HP			1.55	LB/H		0.16	tpy			
	Center Center	Fire Wate Pump						1.93	LB/H		0.096	tpy			

		PERMIT				THE OWNER OF THE OWNER OWNER OF THE OWNER OW		CONTROL	рыностол		ANG TO SE	PARCETON		LVIO TTO	STANDARD		ANO TO TO
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
DECID	THE PROPERTY OF THE PARTY OF TH	Ditte	Fire Pump Diesel Internal	TRUMENT TOLL	I I I I I I I I I I I I I I I I I I I	0.111	Three (3) 252 hp	Good Combustion	2.1	0.415	3-HOUR	1.1.1112	0.410	CONDITION	2.3.72.2	0.1115	COMPTION
AK-0084	DONLIN GOLD PROJECT	6/30/2017	Combustion Engines	Diesel	252	hp	fire pump diesel	Practices	3.3	G/KW-HR	AVERAGE	0			0		
	OKEECHOBEE CLEAN		One 422-hp emergency fire pump					Use of clean engine									
FL-0356	ENERGY CENTER DANIA BEACH ENERGY	3/9/2016	Emergency Fire Pump Engine	ULSD	0		to NSPS Subpart IIII Limits equal	technology	3.5	G / KW-HR		0		-	0		
FL-0363	CENTER	12/4/2017	(422 hp)	ULSD	0		Subpart IIII limits	Certified engine	3.5	G / KWH		0			0		
	ST. JAMES METHANOL		DFP1-13 - Diesel Fire Pump				Operating hour	Compliance with									
*LA-0312	PLANT ST. CHARLES POWER	6/30/2017	Engine (EQT0013)	Diesel	650	horsepower	limit: 100 hr/yr	NSPS Subpart IIII	0.9	LB/HR	HOURLY	0		ANNUAL	0		
LA-0313	STATION STATION	8/31/2016	SCPS Emergency Diesel Firewater Pump 1	Diesel	282	HP		Compliance with NESHAP 40 CFR 63	1.62	LB/H	MAXIMUM	0.4	T/YR	MAXIMUM	2.6	G/BHP-H	
	CAMERON LNG							Complying with 40									
LA-0316	FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	460	hp		CFR 60 Subpart IIII	0			0		-	0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Firewater pump Engines (4 units)	diesel	896	hp (each)		complying with 40 CFR 60 Subpart IIII	0			0			0		
LP-0317	MONSANTO LULING	12/22/2010	Fire Water Diesel Pump No. 3	dieser	0,0	np (cacii)	Emergency engine	Proper operation and									
LA-0323	PLANT	1/9/2017	Engine	Diesel Fuel	600	hp	with a limit of 100	limits on hours	0			0			0		
LA-0323	MONSANTO LULING PLANT	1/9/2017	Fire Water Diesel Pump No. 4 Engine	Diesel Fuel	600	1	Emergency Engine limited to 100	Proper operation and limits on hours of									
LA-0323	GRAYLING	1/9/201/	Dieself fire pump engine	Diesei Fuei	600	np	One diesel fire	Good design and	0		TEST	0		TEST	0		
MI-0421	PARTICLEBOARD	8/26/2016	(EUFIREPUMP in FGRICE)	Diesel	500	H/YR	pump engine rated	combustion practices.	3.5	G/KW-H	PROTOCOL	3.09	LB/H	PROTOCOL	0		
			EUFPENGINE (Emergency				A 260 brake	Good combustion			TEST						
MI-0423	INDECK NILES, LLC GRAYLING	1/4/2017	engine-diesel fire pump) EUFIREPUMP in FGRICE	Diesel	1.66	MMBTU/H	horsepower (bhp) One diesel fire	practices and meeting Good design and	2.6	G/BHP-H	PROTOCOL TEST	0		TEST	0		
MI-0425	PARTICLEBOARD	5/9/2017	(Diesel fire pump engine)	Diesel	500	H/YR	pump engine rated	combustion practices.	3.5	G/KW-H	PROTOCOL	3.09	LB/H	PROTOCOL	0		
	MEC NORTH, LLC AND		EUFPENGINE (South Plant):				A 300 HP diesel-	Good combustion									
*MI-0433	MEC SOUTH LLC	6/29/2018	Fire pump engine	Diesel	300	HP	fired emergency fire		2.6	G/BPH-H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUFPENGINE (North Plant): Fire pump engine	Diesel	300	HP	A 300 HP diesel-	Good combustion practices and meeting	2.6	G/BHP-H	HOURLY	0			0		
MI-0433	BELLE RIVER	0/22/2018	r ne pump engine	Diesei	500		A 399 brake HP	State of the art	2.0	G/DIII-II	HOURET				1		
*MI-0435	COMBINED CYCLE	7/16/2018	EUFPENGINE: Fire pump engine	Diesel	399	BHP	diesel-fueled	combustion design.	3.5	G/KW-H	HOURLY	0			0		
NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING	2/10/2016	n n in n	ULSD	100	H/YR	Maximum heat	use of ULSD a clean		LB/H							
NJ-0084	CRICKET VALLEY	3/10/2016	Emergency Diesel Fire Pump	ULSD	100	H/YK	Input Rate = 2.6	burning fuel, and Compliance	1.1	LB/H		0		+	0		
NY-0103	ENERGY CENTER	2/3/2016	Emergency fire pump	ultra low sulfur diesel	460	hp		demonstrated with	0.53	G/BHP-H	1 H	0			0		
	CPV FAIRVIEW ENERGY						Sulfur content of										
*PA-0310	CENTER	9/2/2016	Emergency Fire Pump Engine	ULSD	0		diesel fuel shall not	Equipment	2.61	G/BHP-HR		0			0		
TX-0799	BEAUMONT TERMINAL	6/8/2016	Fire pump engines	diesel	0			specifications and	0.0055	LB/HP-HR		0			0		
	GREENSVILLE POWER		DIESEL-FIRED WATER PUMP				FWP-1: 104.0	Good Combustion									
*VA-0325	STATION	6/17/2016	376 bph (1)	DIESEL FUEL	0		tons/year (12-month	Practices/Maintenance	2.6	G/HP-H	HR	0			0		
							2.7 MMBtu/hr Diesel Fired Well										
	KENAI NITROGEN						Pump. Installed in	Limited Operation of									
*AK-0083	OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	1966.	168 hr/yr.	0.95	LB/MMBTU		0			0		
CA-1144	BLYTHE ENERGY PROJECT II	4/25/2007	FIRE PUMP	DIESEL	303	HP			0.7	LB/H		0					
CA-1144	PROJECT II	4/23/2007	PIKE FOWIF	DESEL	303	III			0.7	LD/11		0			1		
								OPERATIONAL									
							135 KW (182 hp) IC Diesel-fired	RESTRICTION OF 50 HR/YR, OPERATE	'								
							Emergency	AS REQUIRED FOR									
	VICTORVILLE 2 HYBRID		EMERGENCY FIREWATER				Firewater Pump	FIRE SAFETY									
CA-1191	POWER PROJECT	3/11/2010	PUMP ENGINE	DIESEL	135	KW	Engine	TESTING EQUIPPED W/ A	3.5	G/KW-HR		2.6	G/B-HP-H	_	0		
								TURBOCHARGER									
								AND AN						1			
	AVENAL ENERGY		EMERGENCY FIREWATER					INTERCOOLER/AFT									
CA-1192	PROJECT	6/21/2011	PUMP ENGINE	DIESEL	288	HP	The permittee is	ERCOOLER	0.447	G/B-HP-H		0	1	1	0		
							authorized to							1			
							construct a 1,000							1			
							gallon tank to store ULSD fuel oil for	demonstrate						1			
							use in the	compliance in			1			1			
	PALM BEACH						emergency diesel	accordance with the						1			
	RENEWABLE ENERGY		Two emergency diesel firewater		l		firewater pump	procedures given in 40					1				
FL-0324	PARK	12/23/2010	pump engines		250	HP	engines.	CFR 60, Subpart IIII	2.6	G/B-HP-H	-	0	1		0	-	
							THERE ARE 4						1				
							IDENTICAL FIRE							1			
							PUMP ENGINES ASSOCIATED							1			
							WITH THIS							1			
							PROJECT. ALL							1			
							OF THE UNITS	GOOD			AVERAGE OF			ROLLING 12			
A-0084	ADM POLYMERS	11/30/2006	FIRE PUMP ENGINE	DIESEL FUEL	460	HP	HAVE THE SAME EMISSION LIMITS	DRACTICES	26	G/B-HP-H	THREE (3) TEST RUNS	0.78	T/YR	MONTH TOTAL	l ₀		
1-0004	ADM FOLTMERS	111/30/2000	IT INC. I OWIT ENGINE	DIEGEL FUEL	1700	1111	PINTOSION PROHITS	p restricted	14.0	O/D-11F-11	TIPOT KONO	10.70	11/11	LIGIAL	I v	1	ı

		PERMIT						CONTROL							ISTANDARD	1	
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	METHOD	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
							COMPRESSION	TIER 3 ENGINE-									
							IGNITION	BASED,									
	LANGLEY GULCH						INTERNAL COMBUSTION (CI	GOOD COMBUSTION									
ID-0018	POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	ICE)	PRACTICES (GCP)	0		SEE NOTE	0			0		
115 0010	TO WEST LESS TO	0.23.2010	THE TOM ENGLE	DILOCE	200		ICL)	Tier IV standards for			BEETIGIE						
								non-road engines at 40									
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Firewater Pump Engine	distillate fuel oil	373	hp		CFR 1039.102, Table	3.5	G/KW-HR		0			0		
LL OIII	LLC	37372011	Thewater rump Engine	distribute rater on	373	The state of the s	THE TWO	,,	0.0	GHEW THE							
							FIREWATER PUMP ENGINES,										
							IDENTIFIED AS										
							FP01 AND FP02,										
							EXHAUSTING	COMBUSTION									
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS.	DESIGN CONTROLS AND USAGE LIMITS	26	G/B-HP-H		500	HOURS OF OPERATION	VEADIV	0		
114-0136	CENTER, EEC	12/3/2012	DESEE ENGINES	DILGEL	371	Bill, Each	OPERATION	AND CSAGE EIMITS	2.0	G/D-III-II		500	OFERATION	TEAKET	,		
							LIMITED TO 500 HOURS PER										
							YEAR.										
							INSIGNIFICANT	GOOD									
	MIDWEST FERTILIZER						ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP		500	HP	NOT BE TESTED. ANNUAL	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
							OPERATION	GOOD									
	OHIO VALLEY		DIESEL-FIRED EMERGENCY				LIMITED TO 200	COMBUSTION			3-HR						
*IN-0179	RESOURCES, LLC	9/25/2013	WATER PUMP	NO. 2 FUEL OIL	481	ВНР	HR, OPERATION	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
							LIMITED TO 500										
							HOURS PER										
							YEAR.	GOOD									
	MIDWEST FERTILIZER						INSIGNIFICANT ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		500	HP	NOT BE TESTED.	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
								GOOD ENGINE									
								DESIGN AND PROPER									
								OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/2005	DIESEL FIRED WATER PUMP				425 HP	PRACTICES	1.88	LB/H	MAXIMUM	0.05	T/YR	MAXIMUM	2.01	G/B-HP-H	AVERAGE
								USE OF LOW- SULFUR FUELS,									
								LIMITING									
								OPERATING HOURS									
	ARSENAL HILL POWER							AND PROPER ENGINE									
LA-0224	PLANT	3/20/2008	DFP DIESEL FIRE PUMP	DIESEL	310	HP	EQT-016	MAINTENANCE	2.07	LB/H	MAX	0			0		
								good equipment									
LA-0251	FLOPAM INC. FACILITY	4/26/2011	Fire Pump Engines - 2 units	diesel	444	hp	each	design and proper combustion practices	0.65	LB/H		0.03	T/YR		0		
								ULTRA LOW	-								
	NINEMILE POINT							SULFUR DIESEL AND GOOD									
	ELECTRIC GENERATING							COMBUSTION						ANNUAL			
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	2.6	G/B-HP-H	LB/MM BTU	2.6	G/HP-H	AVERAGE			
							â‰										
							month rolling										
							period			1						1	
	SALEM HARBOR						S in ULSD:										
*MA-0039	STATION REDEVELOPMENT	1/30/2014	Fire Pump Engine	ULSD	27	MMBtu/hr	≤0.0015% by weight		2.6	G/B-HP-H	1 HR BLOCK AVG	2.14	LB/H	1 HR BLOCK AVG	0		
IVIA-0039	KLDEVELOFMENT	1/30/2014	INTERNAL COMBUSTION	CLOD	2.7	WINDU/III	weight		2.0	G/B-HF-H	AVU	2.14	LD/11	AvG			
		l	ENGINE - EMERGENCY FIRE		I										1.		
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP	DIESEL	300	HP	40 CFR 60,	-	2.6	G/B-HP-H		0	+	-	0		
							SUBPART IIII,			1						1	
							ULTRA LOW-	USE OF ULTRA		1						1	
							SULFUR DIESEL	LOW SULFUR									
ı	Í.		EMERGENCY DIESEL ENGINE	III TO A LONGOU FUR			FUEL, GOOD COMBUSTION	DIESEL AND GOOD COMBUSTION						1			

		DEDMIT						CONTROL							CT AND A DP		
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	ULTRA LOW SULFUR DIESEL	477	HP	40 CFR 60, SUBPART IIII, ULTRA LOW- SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES 40 CFR 60,	USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND HOURS OF OPERATION LIMITED TO 100 HOURS PER YEAR	2.6	G/B-HP-H		3.49	G/KW-H		0		
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	5 EMERGENCY FIRE WATER PUMP ENGINES	ULTRA LOW SULFUR DIESEL	350	НР	SUBPART IIII, ULTRA LOW- SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES OPERATIONAL	GOOD COMBUSTION PRACTICES AND DESIGNED TO MEET EMISSION LIMIT	3	G/B-HP-H		4	G/KW-H		0		
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	FIRE PUMP	ULTRA LOW SULFUR DIESEL	525	НР	LIMITS: 1 HOUR/DAY AND 500 HRS/YEAR FOR PM2.5 NAAQS. OPERATIONAL	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL	2.6	G/B-HP-H	TEST METHOD	0			0		
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	FIRE BOOSTER PUMP	ULTRA LOW SULFUR DIESEL	40	KW	LIMITS 1 HR/DAY AND 500 HRS/YR FOR PM2.5 NAAQS.	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	5	G/KW-HR	TEST METHOD	0			0		
	THETFORD GENERATING STATION	7/25/2013	EU-FPENGINE: Diesel fuel fired emergency backup fire pump	diesel fuel	315	hp nameplate	This is a diesel fuel fired emergency backup fire mump. It has a capacity of 315 hp, nameplated and uses diesel fuel ASTM D975 Grade 2-D S15. Ultra low sulfur diesel fuel (15pmw); 100 hours per year operation for maintenance and readiness testing, NSFS IIII and NSESHAP ZZZZ.	Proper combustion design and ultra low sulfur diesel fuel.	2.6	G/B-HP-H	TEST PROTOCOL WILL SPECIFY AVG. TIME.	o			0		
	HOLLAND BOARD OF PUBLIC WORKS - EAST		Emergency Engine Diesel Fire				A 165 hoursepower (hp) dissel-fueled cemergency engine manufactured in 2013, invih a heat input of 1.35 MMBTU/hr. Powers a fire pump used for back up during an emergency (EUFPENGINE). Restricted to 500 hours/year on a 12-month rolling time	Good combustion			TEST						
*MI-0412 *MS-0092	5TH STREET EMBERCLEAR GTL MS	12/4/2013 5/8/2014	Pump (EUFPENGINE) Eight 325 hp diesel firewater pumps	Diesel	165 325	HP	period basis.	practices	0	G/B-HP-H	PROTOCOL	0			0		
NC-0101	FORSYTH ENERGY PLANT	9/29/2005	IC ENGINE, EMERGENCY FIREWATER PUMP	DIESEL FUEL	11.4	MMBTU/H	usage limited to 200 h/yr The lire pump nas a maximum heat input rate of 2.63 MMBtu/hr (approximately 250 HP) and is		9.69	LB/H		0			2.05	G/B-НР-Н	calculated, assumes 48% efficiency
	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	Emergency diesel fire pump	Ultra Low Sulfur Distillate oil	0		permitted for 100 hrs per year for testing and maintenance		0.079	LB/H		2.6	G/B-HP-H		0		

Table D-E-2 Carbon Monoxide (CO) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT						ICONTROL							ISTANDARD		
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	METHOD	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
							SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON- RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)										
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	FIRE PUMP ENGINES (2)	DIESEL FUEL OIL	300	НР	DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	1.72	LB/H	FOR EACH ENGINE	0.43	T/YR	PER ROLLING 12-MONTH PERIOD	2.6	б/нр-н	FROM TABLE 4 OF SUBPART III
	OREGON CLEAN						223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per rolling 12	Purchased certified to the standards in NSPS	1.72		ENGINE			PER ROLLING	2.0	0/11/41	
*OH-0352	ENERGY CENTER CHOUTEAU POWER	6/18/2013	Emergency fire pump engine EMERGENCY FIRE PUMP (267-	diesel	300	HP	months.	Subpart IIII	1.7	LB/H		0.43	T/YR	12-MONTHS	0		SEE NOTES
OK-0129	PLANT	1/23/2009	HP DIESEL)	LOW SULFUR DIESEL	267	HP	The fire pump will		2.6	G/B-HP-H	NSPS	0			0		
	MOXIE LIBERTY LLC/ASYLUM POWER PL						be restricted to operate not more										
PA-0278	MOXIE ENERGY	10/10/2012	Fire Pump	Diesel	0		than 100 hr/yr.		0.5	G/B-HP-H		0.51	LB/H		0.5	G/B-HP-H	
*PA-0286	LLC/PATRIOT GENERATION PLT	1/31/2013	Fire Pump Engine - 460 BHP	Diesel					0.5	G/B-HP-H		0.51	LB/H		0.03	T/YR	
TA-0200		1/31/2013			0		EMERGENCY		0.5	G/B-IIF-II		0.51	Lb/II	12-MONTH	0.03	1/ 1 K	
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY FIREWATER PUMP	ULTRA LOW SULFUR DISTILLATE	3.25	MMBTU/H	FIREWATER PUMP (450 BHP)		2.58	LB/H		0.13	T/YR	ROLLING TOTAL	0		
	BERKS HOLLOW ENERGY ASSOC										BASED ON 12- MONTH ROLLING						
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr	The Emergency Fire	:	0.09	T/YTR	TOTAL	0			0		+
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Fire Pump	ULSD Fuel Oil #2	335	bhp	Pump is rated at 335 BHP and limited to 500 hr/yr (emergency operations and testing and maintenance, combined).		2.6	G/B-HP-H		1.93	LB/H		0		
1 K-0007	1 ROJEC I	T 10/2014	Lancagoney Diesei File Fump	OLSD Fuel Oil #2	333	опр	CONSTRUCTION		2.0	G/D-HF-H		1./3	LO/11		V		\vdash
SC-0113	PYRAMAX CERAMICS,	2/8/2012	FIRE PUMP	DIESEL	500	НР	PERMIT AUTHORIZES THE CONSTRUCTION OF ONE (1) FIRE PUMP. THIS PROCESS AND POLLUTANT	ENGINES CERTIFIED TO MEET NSPS, SUBPART IIII. HOURS OF OPERATION LIMITED TO 100 HOURS PER YEAR FOR MAINTENANCE AND TESTING.	3.5	G/KW-HR		0			0		
ac-0113	MOUNDSVILLE	2/0/2012	PIKE FUMP	DIESEL	300	III		AND LESTING.	3.3	G/KW-FIK		U	†		U		
*WV-0025	COMBINED CYCLE POWER PLANT CHEYENNE PRAIRIE	11/21/2014	Fire Pump Engine	Diesel	251	НР	Limited to 100 Hours/year.		1.44	LB/H		0			0		
*WY-0070	GENERATING STATION	8/28/2012	Diesel Fire Pump Engine (EP16)	Ultra Low Sulfur Diesel	327	hp		EPA Tier 3 rated	0			0			0		

		PERMIT				1		CONTROL							STANDARD		
		ISSUANCE				THROUGHPUT		METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
							OPERATION NOT					1	1				
							TO EXCEED 500										
							HOURS PER										
							YEAR.										
							INSIGNIFICANT	GOOD									
	MIDWEST FERTILIZER						ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0180	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	NOT BE TESTED.	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
							Each pump engine										
							is 252 HP. They are limited to										
	DETROIT EDISON						emergency use and subject to NSPS	Good combustion			EACH PUMP; TEST						
*MI-0399	MONROE	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	252	HP		practices.	2.6	G/B-HP-H	PROTOCOL						
*WII-0399	MONROE	12/21/2010	4 Diesei-fired quench pumps	Diesei tuei	232	nr	Subpart IIII. OPERATION NOT	practices.	2.0	G/В-ПР-П	PROTOCOL	0	_		0		
							TO EXCEED 500										
							HOURS PER										
							YEAR.										
							INSIGNIFICANT	GOOD									
	MIDWEST FERTILIZER						ACTIVITY, WILL	COMBUSTION			3-HR						
*IN-0173	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	NOT BE TESTED.	PRACTICES	2.6	G/B-HP-H	AVERAGE	0			0		
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel				Clean Fuel	0.18	lb/MMBtu	1-hr average		LB/H	1-hour average			
								Good Combustion									
	Catoctin Power LLC Footprint Power Salem		Firewater Pump	Ultra Low Sulfur Diesel	370	kW		Practices	2.5	LB/H	3-hr average	100	hr/yr				
	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	2.14	LB/H	1-hr average	2.6	g/b-hp-hr	1-hr average			
	Footprint Power Salem	-	rire rump	ULSD	80	WIWIDIU/III		Pipenne quanty NG	2.14	LB/II	1-nr average	2.0	g/ b-np-nr	1-nr average			
1	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	3.5	g/KW-hr	1-hr average			1			
	CPV Valley Energy Center	.	The Lamp	CLOD				Good combustion		B/ 12 III	uverage	 	1	 			
	Wawayanda, NY		Fire Pump	ULSD	325	bhp		controls.	0.75	lb/MMBtu	1-hr average	1					
	Cricket Valley Energy																
	Center		Fire Pump	ULSD	2.8	MMBtu/hr			0.19	lb/MMBtu		0.53	g/b-hp-hr				
	Hess Newark Energy																
	Center		Fire Pump	ULSD	270	HP			1.55	LB/H		0.16	T/YR		2.60	G/HP-H	
	Woodbridge Energy Center		Fire Wate Pump	Ultra Low Sulfur Diesel					2.6	G/B-HP-H		1.81	LB/H				

Table D-E-3 Volatile Organic Compounds (VOC) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	FMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL		UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS		LIMIT	UNITS	CONDITION
LA-0276	BATON ROUGE JUNCTION FACILITY	12/15/2016	Fire Pump Engines (2 units)	Diesel	700	hp		Comply with standards of NSPS Subpart IIII	0			0			(
*LA-0312	ST. JAMES METHANOL PLANT		DFP1-13 - Diesel Fire Pump Engine (EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NNSPS Subpart	0.13	LB/HR					,		
	ST. CHARLES POWER		SCPS Emergency Diesel				Operating nour limit: 100 nr/yr	IIII			HOURLY			ANNUAL	,	1	
LA-0313	STATION CAMERON LNG	8/31/2016	Firewater Pump 1	Diesel	282	HP		Good combustion practices Complying with 40 CFR 60 Subpart		LB/H	MAXIMUM	0.47	T/YR	MAXIMUM	()	-
LA-0316	FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	460	hp		III				0			()	
MI-0423	INDECK NILES, LLC	1/4/2017	EUFPENGINE (Emergency enginediesel fire pump)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later	Good combustion practices	0.64	LB/H	TEST PROTOCOL	0			(
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC		EUFPENGINE (South Plant):	n: 1	300		A 300 HP diesel-fired emergency fire pump engine with a model year of 2011 or later, and a			LB/H	HOURLY						
	MEC NORTH, LLC AND		Fire pump engine EUFPENGINE (North Plant):	Diesel			A 300 HP diesel-fired emergency fire pump	Good combustion practices.				† °			,	,	
*MI-0433	MEC SOUTH LLC BELLE RIVER	6/29/2018	Fire pump engine	Diesel	300	HP	engine with a model year of 2011 or later, and a A 399 brake HP diesel-fueled emergency fire	Good combustion practices	0.75	LB/H	HOURLY	0			(
*MI-0435	COMBINED CYCLE	7/16/2018	EUFPENGINE: Fire pump engine	Diesel	399	ВНР	pump engine with a model year of 2011 or later,	State of the art combustion design.	0.13	LB/H	HOURLY	0			()	
TX-0799	BEAUMONT TERMINAL	6/8/2016	Fire pump engines	diesel				Equipment specifications and good combustion practices. Operation	0.0007	LB/HP-HR					,		
	GREENSVILLE POWER		DIESEL-FIRED WATER PUMP					Good Combustion	0.0007						,		
*VA-0325	STATION KENAI NITROGEN	6/17/2016	376 bph (1)	DIESEL FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total) 2.7 MMBtu/hr Diesel Fired Well Pump.	Practices/Maintenance	3	G/HP-H	PER HR	0			()	
*AK-0083	OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	Installed in 1966. THERE ARE 4 IDENTICAL FIRE PUMP	Limited Operation of 168 hr/yr.	0.36	LB/MMBTU		0			()	
							ENGINES ASSOCIATED WITH THIS							ROLLING 12			1
IA-0084	ADM POLYMERS	11/30/2006	FIRE PUMP ENGINE	DIESEL FUEL	460	НР	PROJECT. ALL OF THE UNITS HAVE THE SAME EMISSION LIMITS	GOOD COMBUSTION PRACTICES		G/B-HP-H	3 1-H TEST RUNS	1.65		MONTH TOTAL	,	,	
14-0004		11/30/2000	TIKETOWI ENGINE	DIESEE FOLE	400	111	SAME EMISSION EMITS	TRACTICES		G/D-III-II	AVERAGE OF 3	1.00		ROLLING 12	,		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.25	G/KW-HR	STACK TEST RUNS	0.03	T/YR	MONTH TOTAL	(
	LANGLEY GULCH						COMPRESSION IGNITION INTERNAL	TIER 3 ENGINE-BASED, GOOD COMBUSTION									
ID-0018	POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CLICE)	PRACTICES (GCP)	4	G/KW-HR	NOX+NMHC	0			()	
	CRONUS CHEMICALS,			distillate fuel				Tier IV standards for non-road engines at 40 CFR 1039.102, Table									
*IL-0114	LLC	9/5/2014	Firewater Pump Engine	oil	373	hp		7.		G/KW-HR		0			()	
							THE TWO FIREWATER PUMP ENGINES,						HOURS OF				
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/2/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	DIESEL	271	BHP, EACH	IDENTIFIED AS FP01 AND FP02, EXHAUSTING THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.14	LB/H		500	OPERATIO	YEARLY	,		
114-0136		12/3/2012	DIESEE ENGINES	DIESEL	3/1	BIII, LACII	OPERATION LIMITED TO 500 HOURS PER		0.10	LD/II		300		TEARET	,		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	FIRE PUMP		500	HP	YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE				(,	
*IN-0179	OHIO VALLEY RESOURCES, LLC	0/25/2012	DIESEL-FIRED EMERGENCY WATER PUMP	NO. 2 FUEL	481	DIID	ANNUAL OPERATION LIMITED TO 200 HR.	GOOD COMBUSTION PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE				,		
*IN-01/9		9/23/2013	WATER PUMP	OIL	481	БПР	OPERATION LIMITED TO 500 HOURS PER		0.141	G/В-ПР-П	3-FIR AVERAGE				,	,	
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	FIRE PUMP		500	НР	YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0 141	G/B-HP-H	3-HR AVERAGE				,		
11,0100	Cold Gld IIIo.	0.0201	THE TOM		500	***	NOT DE TESTES.		0.111	GD III II	J III / I / LIC IO				,		
								GOOD ENGINE DESIGN AND PROPER OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	CRESCENT CITY POWER	6/6/2005	DIESEL FIRED WATER PUMP				425 HP	PRACTICES USE OF LOW-SULFUR FUELS.	0.05	LB/H	MAXIMUM	0.001	T/YR	MAXIMUM	0.05	G/B-HP-H	AVERAGE
								LIMITING OPERATING HOURS									
LA-0224	ARSENAL HILL POWER PLANT	3/20/2008	DFP DIESEL FIRE PUMP	DIESEL	310	НР	EQT-016	AND PROPER ENGINE MAINTENANCE	0.77	LB/H	MAX					,	
	NINEMILE POINT ELECTRIC GENERATING							ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION			ANNUAL						ANNUAL
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	1	G/B-HP-H	AVERAGE	0			1	G/HP-H	AVERAGE
				ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW-	USE ONLY ULSD, GOOD COMBUSTION PRACTICES, AND									
	COVE POINT LNG		5 EMERGENCY FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	DESIGNED TO ACHIEVE									1
*MD-0044	TERMINAL	6/9/2014	PUMP ENGINES	DIESEL	350	HP	COMBUSTION PRACTICES	EMISSION LIMIT	3	G/B-HP-H	NOX + NMHC	4	G/KW-HR	NOX + NMHC	(
							This is a diesel fuel fired emergency backup fire mump. It has a capacity of 315 hp, nameplate,										
							and uses diesel fuel ASTM D975 Grade 2-D										1
							S15.										
	THETEONE		EVI EDENION E TO A CO				Ultra low sulfur diesel fuel (15ppmw); 100 hours										
*MI-0410	THETFORD GENERATING STATION	7/25/2013	EU-FPENGINE: Diesel fuel fired emergency backup fire pump	diesel fuel	315	hp nameplate	per year operation for maintenance and readiness testing. NSPS IIII and NESHAP ZZZZ.	Proper combustion design and ultra low sulfur diesel fuel.	0			0				,	1
							A 165 hoursepower (hp) diesel-fueled emergency	,									
							engine manufactured in 2013, iwth a heat input										
	HOLLAND BOARD OF						of 1.35 MMBTU/hr. Powers a fire pump used for back up during an emergency										1
WAT 0412	PUBLIC WORKS - EAST	10/4/0010	Emergency EngineDiesel Fire Pump (EUFPENGINE)	Dissel		LID	(EUFPENGINE). Restricted to 500 hours/year	Good combination of	0.00	I D/II	TEST PROTOCOL						
*MI-0412	5TH STREET	12/4/2013	prump (EUFPENGINE)	Diesei	165	nr	on a 12-month rolling time period basis.	Good combustion practices	0.001	LB/H	PROTOCOL	0	1	l	('1	1

Table D-E-3 Volatile Organic Compounds (VOC) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT													STANDARD		
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME			AVG TIME
RBLCID			PROCESS NAME		THROUGHPUT	UNIT				UNITS		LIMIT 2	UNITS	CONDITION		UNITS	CONDITION
ì			Eight 325 hp diesel firewater							ĺ				Ť .			
*MS-0092	EMBERCLEAR GTL MS	5/8/2014	pumps	diesel	325	hp			0			0)		0		
	FORSYTH ENERGY		IC ENGINE, EMERGENCY														
NC-0101	PLANT	9/29/2005	FIREWATER PUMP	DIESEL FUEL	11.4	MMBTU/H	usage limited to 200 h/yr		1.04	LB/H		0)		0		
							The fire pump has a maximum heat input rate of										
	PSEG FOSSIL LLC			Ultra Low			2.63 MMBtu/hr (approximately 250 HP) and is										
	SEWAREN GENERATING			Sulfur Distillate			permitted for 100 hrs per year for testing and										
*NJ-0081	STATION	3/7/2014	Emergency diesel fire pump	oil	()	maintenance SUBJECT TO NSPS SUBPART IIII. WILL		0.119	LB/H		0)		0		
							INSTALL NON-RESETTABLE HOUR METER										
							PRIOR TO STARTUP PER 40 CFR										
							60.4209(A)										
							DIESEL FUEL SHALL MEET THE										
							REQUIREMENTS OF 40 CFR 80.510 AND										
							60.4207: SULFUR CONTENT OF 15 PPM										
								GOOD COMBUSTION						PER ROLLING			FOR NMHC AND
I	OHIO RIVER CLEAN			DIESEL FUEL			MINIMUM OR AROMATIC CONTENT OF 35				FOR EACH			12-MONTH			NOX COMBINED,
OH-0317	FUELS, LLC	11/20/2008	FIRE PUMP ENGINES (2)	OIL	300	HP		DESIGN	0.26	LB/H	ENGINE	0.07	T/YR	PERIOD	7.8	G/HP-H	5% NMHC
							223.8 kW. Emergency fire pump engine										
	OREGON CLEAN			l				Purchased certified to the standards					T/YR	PER ROLLING			
*OH-0352	ENERGY CENTER	6/18/2013	Emergency fire pump engine	diesel	300	HP	12 months.	in NSPS Subpart IIII	0.25	LB/H		0.06	1/YR	12-MONTHS	- 0	1	SEE NOTES
	CHOUTEAU POWER		EMERGENCY FIRE PUMP (267-	I OW CITI FUD													
OK-0129	PLANT	1/22/2000	HP DIESEL)	DIESEL.		HP		GOOD COMBUSTION	0.00	LB/H		1 .	J	1			
OK-0129	MOXIE LIBERTY	1/23/2009	THE DIESEL)	DIESEL	26.	nr		GOOD COMBUSTION	0.66	LD/II		1 0	<u>'</u>	1	- 0		
	LLC/ASYLUM POWER PL						The fire pump will be restricted to operate not			1		1	1	1			
PA-0278	T T T T T T T T T T T T T T T T T T T	10/10/2012	Fire Pump	Diesel	1 ,	,	more than 100 hr/vr.		0.1	G/B-HP-H			LB/H	1			
PA-02/8	MOXIE ENERGY	10/10/2012	rire rump	Diesei	<u> </u>	,	more than 100 nr/yr.		0.1	∪/В-ПР-Н		0.1	LD/fl	1	- "	-	
	LLC/PATRIOT									1		1	1	1			
*PA-0286	GENERATION PLT	1/21/2012	Fire Pump Engine - 460 BHP	Diesel	1	\ \			0.1	G/B-HP-H		0.1	LB/H		0.01	T/YR	
FA-0280	OENEKATION PLI	1/31/2013	True rump raigide - 400 BHP	Diesei	1	4			0.1	O/D-HP-II	1	0.1	LD/11	1	0.01	1/1K	

Table D-E-3 Volatile Organic Compounds (VOC) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT													STANDARD		
DDI CID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	XINDRO.	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS		EMISSION LIMIT	UNITS	AVG TIME CONDITION
RBLCID	FACILITY NAME	DATE	PROCESS NAME		THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMITI	UNITS	CONDITION	LIMIT 2	UNITS		LIMIT	UNITS	CONDITION
	HICKORY RUN ENERGY		EMERGENCY FIREWATER	ULTRA LOW SULFUR										A 12-MONTH ROLLING			
*PA-0291	STATION	4/23/2013		DISTILLATE	3.25	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		1.11	LB/H		0.06	T/YR	TOTAL		0	
											BASED ON 12-						
	BERKS HOLLOW ENERGY ASSOC										MONTH ROLLING						
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr			0.013	T/YR	TOTAL		,			0	
	ENERGY ANSWERS																
	ARECIBO PUERTO RICO RENEWABLE ENERGY			ULSD Fuel Oil			The Emergency Fire Pump is rated at 335 BHP and limited to 500 hr/yr (emergency operations										
*PR-0009	PROJECT	4/10/2014	Emergency Diesel Fire Pump	#2			and testing and maintenance, combined).		0.15	G/B-HP-H		0.11	LB/H		١,	0	
110005	TROSECT	17.00.201	Emergency Dieser Fire Fump	"-	,		and testing and manifestance, commonly.		0.13	G/D 111 11		0.11	LDIII			1	
							THE CONSTRUCTION PERMIT	CERTIFIED ENGINES THAT COMPLY WITH NSPS, SUBPART									
							AUTHORIZES THE CONSTRUCTION OF	IIII. HOURS OF OPERATION									
							ONE (1) FIRE PUMP. THIS PROCESS AND	LIMITED TO 100 HOURS PER									
	PYRAMAX CERAMICS,						POLLUTANT INFORMATION IS FOR THIS	YEAR FOR MAINTENANCE AND									
SC-0113	LLC	2/8/2012	FIRE PUMP	DIESEL	500	HP	ONE SINGLE FIRE PUMP. THREE (3) 211 KW/282 BHP (EACH)	TESTING.	4	G/KW-HR		(-		0	
							EMERGENCY DIESEL FIRE PUMPS THAT	BACT HAS BEEN DETERMINED									
								TO BE COMPLIANCE WITH									
			FIRE PUMPS, FIRE1, FIRE2,				100 HOURS PER YEAR OR LESS FOR	NSPS, SUBPART IIII, 40									
SC-0159	US10 FACILITY	7/9/2012	FIRE3	DIESEL	211	KW	TESTING AND MAINTENANCE.	CFR60.4202 AND 40 CFR60.4205.	4	G/KW-HR		-				0	
							The process includes 1 emergency generator and										
							4 emergency firewater pump engines. The sulfur										
							in the diesel fuel will meet the sulfur										
							requirement of 15 ppm in 40 CFR 80.510(b).										
							The emissions from each engine result from										
	NATURAL GAS			Ultra-low sulfur			weekly testing which will occur 52 hours a year										
*TX-0706	FRACTIONATION	1/23/2014	Emergency Engines	diesel	(for each engine.		0.03	T/YR		(0	
	MOUNDSVILLE COMBINED CYCLE																
*WV-0025	POWER PLANT	11/21/2014	Fire Pump Engine	Diesel	251	HP	Limited to 100 Hours/year.		0.17	LB/H			,		١ ,	0	
							OPERATION NOT TO EXCEED 500 HOURS										
	MIDWEST FERTILIZER					HP	PER YEAR. INSIGNIFICANT ACTIVITY,	GOOD COMBUSTION									
*IN-0180	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	WILL NOT BE TESTED. OPERATION NOT TO EXCEED 500 HOURS	PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE		1		· '	0	
	MIDWEST FERTILIZER						PER YEAR. INSIGNIFICANT ACTIVITY,	GOOD COMBUSTION				1					
*IN-0173	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	WILL NOT BE TESTED.	PRACTICES	0.141	G/B-HP-H	3-HR AVERAGE	(0	
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel				Clean Fuel	0.11	lb/MMBtu	1-hr average	1					
	Footprint Power Salem	+	гие гишр	Sullur Diesel				Cican ruel	0.11	10/MMDtu	1-nr average	+		1			
	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	2.44	LB/H	1-hr average	1 3	g/b-hp-hr	1-hr average			
	Footprint Power Salem		r: n	I II GD		10 m. 1		N. P. D. MO		arm i							
——	Harbor Development LP CPV Valley Energy Center	+	Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	4	g/KW-hr	1-hr average	+	-	+			+
	Wawayanda, NY		Fire Pump	ULSD	325	bhp		Good combustion controls.	0.3612	lb/MMBtu	1-hr average	1					
	Cricket Valley Energy																
L	Center		Fire Pump	ULSD	2.8	MMBtu/hr			0.035	lb/MMBtu		0.09	g/b-hp-hr	12-month			
	Tenaska Partners LLC		Fire Pump	ULSD	575	HP			0.11	LB/H		0.03	T/YR	12-month rolling			
	Hess Newark Energy Center		Fire Pump	ULSD	27/	НР			0.22	LB/H		0.00	T/YR				
				Ultra Low	2/0	111											
	Woodbridge Energy Center	<u> </u>	Fire Wate Pump	Sulfur Diesel					0.074	lb/MMBtu	<u> </u>	0.16	LB/H	<u> </u>			

Table D-E-4 Particulate Matter (PM) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT													STANDARD		
RRI CID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME	EMISSION LIMIT 2	UNITS	AVG TIME	EMISSION LIMIT	UNITS	AVG TIME CONDITION
KBLCID		DATE	Fire Pump Diesel	FUEL	THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMIT I	UNITS	CONDITION	LIMIT 2	UNIIS	CONDITION	LIMII	UNIIS	CONDITION
	DONLIN GOLD		Internal Combustion			l.	Three (3) 252 hp fire pump diesel internal combustion	Clean Fuel and Good Combustion			3-HOUR				l .		
*AK-0084	PROJECT OKEECHOBEE	6/30/2017	One 422-hp	Diesel	252	hp	engines.	Practices	0.1	9 G/KW-HR	AVERAGE		0		-)	
	CLEAN ENERGY		emergency fire pump				BACT limits equal to NSPS Subpart IIII limits. Will use								l .		
FL-0356	CENTER	3/9/2016	engine	ULSD)	IIII certified engine.	Use of clean fuel	0.	2 G / KW-HR			0		()	+
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	Emergency Fire Pump	ULSD			ri s and america	0.45.1		2 G / KWH					l ,		
*FL-0363	ENERGY CENTER	12/4/2017	Engine (422 hp) Dieself fire pump	ULSD		,	Limits equal Subpart IIII limits	Certified engine	0.	2 G / KWH			0			,	
	GRAYLING		engine (EUFIREPUMP in				One diesel fire pump engine rated at 400 KW	Certified engines, good design, operation and combustion practices.			TEST PROTOCOL WILL SPECIFY			TEST PROTOCOL WILL SPECIFY			
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	500	H/YR	(identified as EUFIREPUMP in FGRICE).	Operational restrictions/limited use.	0.1	8 LB/H	AVG TIME	0	.2 G/KW-H	AVG TIME	()	
							A 260 brake horsepower (bhp) diesel-fueled emergency										
							engine manufactured in 2011 or later and a										
							displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency										
			EUFPENGINE				(EUFPENGINE). Restricted to 1 hour/day, except	Good combustion practices and			TEST PROTOCOL						
MI-0423	INDECK NILES, LLC	1/4/2017	(Emergency engine diesel fire pump)	Diesel	1.66	MMBTU/H	during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	meeting NSPS Subpart IIII requirements.	0.1	5 G/BHP-H	WILL SPECIFY AVG TIME.		0		l ,	,	
WII-0423	INDECK NILES, LLC	1/4/201/		Diesei	1.00	WINID I C/II	nours/year on a 12-month forming time period basis.	1	0.1	J G/BHF-H	AVG TIME.		0			,	
	GRAYLING		EUFIREPUMP in FGRICE (Diesel fire				One diesel fire pump engine rated at 400 KW	Certified engines. Good design, operation and combustion practices.			TEST PROTOCOL			TEST PROTOCOL			
MI-0425	PARTICLEBOARD	5/9/2017	pump engine)	Diesel	500	H/YR	(EUFIREPUMP in FGRICE).	Operational restrictions/limited use.	0.1	8 LB/H	SHALL SPECIFY	0	.2 G/KW-H	SHALL SPECIFY)	
	MEC NORTH, LLC		EUFPENGINE (South				A 300 HP diesel-fired emergency fire pump engine with	Diocal particulate filter acad									
	AND MEC SOUTH		Plant): Fire pump				a model year of 2011 or later, and a displacement of <30	combustion practices and meeting									
*MI-0433	LLC	6/29/2018	engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	NSPS Subpart IIII requirements.	0.1	5 G/BHP-H	HOURLY		0		()	
	MEC NORTH, LLC		EUFPENGINE (North				A 300 HP diesel-fired emergency fire pump engine with	Diesel particulate filter, good									
*MI-0433	AND MEC SOUTH LLC	6/29/2018	Plant): Fire pump	Diesel	200	HP	a model year of 2011 or later, and a displacement of <30		0.1	5 G/BHP-H	HOURLY				l ,		
*WII-0455		0/29/2018	engine	Diesei	300	nr	liters/cylinder. Equipped with a diesel particulate filter. A 399 brake HP diesel-fueled emergency fire pump	NSPS Subpart till requirements.	0.1	э С/ВПР-П	HOURLY		0			,	
	BELLE RIVER COMBINED CYCLE		EUFPENGINE: Fire				engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an										
*MI-0435	POWER PLANT	7/16/2018	pump engine	Diesel	399	внр	EPA Tier 3 certified engine subject to NSPS IIII.	State of the art combustion design	0.	2 G/KW-H	HOURLY		0		()	
	PSEG FOSSIL LLC SEWAREN																
	GENERATING		Emergency Diesel					use of ULSD a clean burning fuel,									
NJ-0084	STATION	3/10/2016	Fire Pump	ULSD	100	H/YR	Maximum heat Input Rate = 2.6 MMBtu/hr	and limited hours of operation	0.	1 LB/H			0		()	
								Compliance demonstrated with									
	CRICKET VALLEY			ultra low sulfur				vendor emission certification and adherence to vendor-specified									
NY-0103	ENERGY CENTER	2/3/2016	Emergency fire pump		460	hp		maintenance recommendations.	0.08	7 G/BHP-H	1 H		0		()	
	CPV FAIRVIEW		Emergency Fire Pump				Sulfur content of diesel fuel shall not exceed 15 ppm, operation of engine shall not exceed 100 hr on a 12-										
*PA-0310	ENERGY CENTER	9/2/2016	Engine	ULSD	()	month rolling basis.		0.1	5 G/BHP-HR			0		()	
*AK-0083	KENAI NITROGEN OPERATIONS	1/6/2015	Diesel Fired Well	Diesel	2.7	MMBtu/hr	2.7 MMBtu/hr Diesel Fired Well Pump. Installed in 1966.	Limited Operation of 168 hr/vr.	0.3	1 LB/MMBTU			0)	
7112 0003		170/2015	i '	Diesei	2.,	Minipa iii	1700.	OPERATIONAL RESTRICTION	0.0	LBMMBTO					,		
	VICTORVILLE 2 HYBRID POWER		EMERGENCY FIREWATER PUMP				135 KW (182 hp) IC Diesel-fired Emergency Firewater	OF 50 HR/YR, OPERATE AS REQUIRED FOR FIRE SAFETY									
CA-1191	PROJECT	3/11/2010		DIESEL	135	KW	Pump Engine	TESTING USE ULTRA LOW SULFUR	0.	2 G/KW-H	1	0.1	5 G/HP-H		()	
								FUELNOT TO EXCEED 15									
	AMENIAL PARENCE:		EMERGENCY					PPMVD FUEL SULFUR,									
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	FIREWATER PUMP ENGINE	DIESEL	288	HP		OPERATIONAL LIMIT OF 50 HRS/YR		0			0)	
	PALM BEACH		Two emergency diesel				The permittee is authorized to construct a 1,000 gallon	demonstrate compliance in									
FL-0324	RENEWABLE ENERGY PARK	12/23/2010	firewater pump engines		250	HP	tank to store ULSD fuel oil for use in the emergency diesel firewater pump engines.	accordance with the procedures given in 40 CFR 60, Subpart IIII	0.1	5 G/HP-H			0)	
	LAUDERDALE									GRAM PER							
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD	29	MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice	0.	GRAM PER 2 HP-HR			0)	
											AVERAGE OF 3			DOLL DIG 12			
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.	2 G/KW-H	STACK TEST RUNS	0.0	3 TONS/YR	ROLLING 12 MONTH TOTAL)	
		. ,,						TIER 3 ENGINE-BASED,									
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	FIRE PUMP ENGINE	DIESEL	235	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	0.	2 G/KW-H			0				
								Tier IV standards for non-road									
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Firewater Pump Engine	distillate fuel o	i 373	hp		engines at 40 CFR 1039.102, Table 7.	0.	1 G/KW-HR			0		(
	ST. JOSEPH		TWO (2)				THE TWO FIREWATER PUMP ENGINES.										
	ST. JOSEPH ENEGRY CENTER,		TWO (2) FIREWATER PUMP				THE TWO FIREWATER PUMP ENGINES, IDENTIFIED AS FP01 AND FP02, EXHAUSTING	COMBUSTION DESIGN					HOURS OF				
*IN-0158	LLC	12/3/2012	DIESEL ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS.	CONTROLS AND USAGE LIMITS	0.1	5 G/HP-H		50	00 OPERATION	YEARLY	()	

Table D-E-4 Particulate Matter (PM) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

RBLCID FACILITY NAME	PERMIT															
RBLCID FACILITI NAME	ISSUANCE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
MIDWEST	DATE	I ROCESS NAME	FOEL	mkocom cr	CHI	OPERATION LIMITED TO 500 HOURS PER YEAR.	DESCRIPTION	Limit	0.413	COMMITTON	Eliviii 2	Citilis	CONDITION	LIMIT	OHIIS	COMBINON
FERTILIZER						INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0173 CORPORATION	6/4/201	FIRE PUMP		500	0 HP	TESTED.	PRACTICES	1 .).15 G/BHP-H	3-HR AVERAGE				1 ,		
EV-0175 CORTORATION	0/4/201	DIESEL-FIRED		300	0 111	TESTED.	TRACTICES		7.13 G/BHI-11	3-IIICAVEICAGE	<u> </u>	<u> </u>		 	1	
OHIO VALLEY		EMERGENCY					GOOD COMBUSTION									
*IN-0179 RESOURCES, LLC	9/25/2013	WATER PUMP	NO. 2 FUEL O	481	1 BHP	ANNUAL OPERATION LIMITED TO 200 HR,	PRACTICES	1).15 G/B-HP-H	3-HR AVERAGE	())	
MIDWEST						OPERATION LIMITED TO 500 HOURS PER YEAR.										
FERTILIZER						INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0180 CORPORATION	6/4/201	FIRE PUMP		500	0 HP	TESTED.	PRACTICES).15 G/B-HP-H	3-HR AVERAGE	()		()	
		INTERNAL														
		COMBUSTION														
		ENGINE -														
MD-0040 CPV ST CHARLES	11/12/200	EMERGENCY FIRE WATER PUMP	DIESEL	200	0 HP			I .).15 G/HP-H					l .		
MD-0040 CPV ST CHARLES	11/12/2008	EMERGENCY	DIESEL	300	U HP			-).15 G/HP-H		(,		<u> </u>	,	+
		DIESEL ENGINE					EXCLUSIVE USE OF ULTRA									
		FOR FIRE WATER				40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR	LOW SULFUR FUEL AND GOOD									
*MD-0041 CPV ST. CHARLES	S 4/23/2014		ULTRA-LOW S	300	0 HP	DIESEL FUEL, GOOD COMBUSTION PRACTICES	COMBUSTION PRACTICES	1 .).15 G/HP-H	N/A				1 (
MB 0011 CI V BI. CIII MCEE	0.25/201	10	OLITATEOW !	500	, III	BESEET CELL, GOOD COMBOSTION TRUCTICES	EXCLUSIVE USE OF ULSD		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1071	·	,		<u> </u>	1	
							FUEL, GOOD COMBUSTION									
		EMERGENCY					PRACTICES, LIMITED HOURS									
WILDCAT POINT		DIESEL ENGINE					OF OPERATION, AND									
GENERATION		FOR FIRE WATER				40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR	DESIGNED TO ACHIEVE									
*MD-0042 FACILITY	4/8/201	PUMP	ULTRA LOW S	477	7 HP	DIESEL FUEL, GOOD COMBUSTION PRACTICES	EMISSION LIMITS).15 G/HP-H		0.2	G/KW-H		()	
		5 EN CENCENION					EXCLUSIVE USE OF ULSD									
COLUMN PORTE LAW	.	5 EMERGENCY				40 CED CO CUIDDADT WE LILTDA LONG CHARLE	FUEL, GOOD COMBUSTION									
*MD-0044 COVE POINT LNG		FIRE WATER PUMP ENGINES	ULTRA LOW S	250	0 HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	l .).15 G/BHP-H		0.0	G/KW-H		l ,		
KARN WEADOCK		ENGINES	ULTRA LOW S	330	Unr	DIESEL FUEL, GOOD COMBUSTION PRACTICES	ENGINE DESIGN AND).13 С/ВПР-П		0.2	G/KW-II		 '	,	+
GENERATING	·	FIRE BOOSTER				OPERATIONAL LIMITS 1 HR/DAY AND 500	OPERATION, 15 PPM SULFUR									
MI-0389 COMPLEX	12/29/200		ULTRA LOW S	40	0 KW	HRS/YR FOR PM2.5 NAAOS.	FUEL.		0.4 G/KW-H	TEST METHOD				1 (
MI 0303	12/23/200	10.00	OLINGT LOW C		0 12 11	The Treatment of the Co.	T OLL		0.11 0.12 11 11	TEST	<u> </u>	,		<u> </u>	1	
WOLVERINE										PROTOCOL;						
*MI-0400 POWER	6/29/201	Fire Pump	Diesel	420	0 HP	Maximum operation was based on 500 hours per year.		1).15 G/HP-H	BACT/SIP/NSPS	()			o l	
						This is a diesel fuel fired emergency backup fire mump.										
						It has a capacity of 315 hp, nameplate, and uses diesel										
						fuel ASTM D975 Grade 2-D S15.										
		EU-FPENGINE:														
THETFORD		Diesel fuel fired				Ultra low sulfur diesel fuel (15ppmw); 100 hours per				TEST PROTOCOL						
GENERATING		emergency backup fire				year operation for maintenance and readiness testing.	Proper combustion design and ultra			WILL SPECIFY				l .		
*MI-0410 STATION	7/25/2013	pump	diesel fuel	31:	5 hp nameplate	NSPS IIII and NESHAP ZZZZ.	low sulfur diesel fuel.	-).15 G/HP-H	AVG. TIME	()		- ')	
	1					A 165 hoursepower (hp) diesel-fueled emergency engine	.[1		1		1
						manufactured in 2013, iwth a heat input of 1.35	1	1		1		1				
HOLLAND BOARI	.	Emergency Engine				MMBTU/hr. Powers a fire pump used for back up	1					1		1	1	1
OF PUBLIC WORK		Diesel Fire Pump				during an emergency (EUFPENGINE). Restricted to	1					1		1	1	1
*MI-0412 EAST 5TH STREE		(EUFPENGINE)	Diesel	165	5 HP	500 hours/year on a 12-month rolling time period basis.	Good combustion practices	1).22 G/HP-H	TEST PROTOCOL		ol .		1 (ol	1
EMBERCLEAR GT		Eight 325 hp diesel		10.		, and the same period basis.			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	1		T .		
*MS-0092 MS			diesel	325	5 hp		1		0			ol		1 0	o	1
		EU03 FIRE PUMP							E-5							
NH-0018 BERLIN BIOPOWE	ER 7/26/2010	ENGINE	DIESEL FUEL	2.27	7 MMBTU/H				0.3 LB/MMBTU	STACK TESTING	()		1 ()	

Table D-E-4 Particulate Matter (PM) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	Emergency diesel fire pump	Ultra Low Sulfu	250) hp	The fire pump has a maximum heat input rate of 2.63 MMBtu/hr (approximately 250 HP) and is permitted for 100 hrs per year for testing and maintenance in Perhitudes shall select alon instain any of the turning the property of the state of the property of the state o	Use of Ultra low sulfur distillate oil	0.1	5 G/B-HP-H		0.099	LB/H)	
	HICKORY RUN		COMBINED CYCLE				options listed below (or newer versions of these turbines if the Department determines that such newer versions achieve equivalent or better emissions rates and exhaust parameters) 1. General Electric 7FA (GE 7FA) 2. Siemens SGTG-5000F (Siemens F) 3. Mitsubishi M501G (Mitsubishi G) 4. Siemens SGTG-8000H (Siemens H) The emissions listed are for the Siemens SGTG-8000H			LB/H W/ DUCT	11.0 LB/HR		T/YR 12- MONTH	INCLUDING STARTUP AND			
*PA-0291	ENERGY STATION HICKORY RUN	4/23/2013	UNITS #1 and #2 EMERGENCY	Natural Gas	3.4	4 MMCF/HR	unit.		18.	5 BURNER	WITHOUT	62.89	ROLLIN	SHUTDOWN 12-MONTH	(
*PA-0291	ENERGY STATION	4/23/2013	FIREWATER PUMP	ULTRA LOW S	3.2:	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)		0.1	5 LB/H		0.01	T/YR	ROLLING TOTAL	()	
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT MIDWEST FERTILIZER	4/10/2014	Emergency Diesel Fire Pump	ULSD Fuel Oil	33:	5 hp	The Emergency Fire Pump is rated at 335 BHP and limited to 500 hr/yr (emergency operations and testing and maintenance, combined). OPERATION NOT TO EXCEED 500 HOURS PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION		5 G/B-HP-H		0.11	LB/H)	
*IN-0180	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP .	TESTED.	PRACTICES	0.1	5 G/B-HP-H	3-HR AVERAGE	0			(
*MI-0399	DETROIT EDISON MONROE MIDWEST	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	25:	2 HP	Each pump engine is 252 HP. They are limited to emergency use and subject to NSPS Subpart IIII. OPERATION NOT TO EXCEED 500 HOURS PER	Good combustion practices.	0.	4 G/HP-H	QP1&QP2 EACH, TEST PROTOCOL	0.15	G/HP-H	QP3&QP4 EACH, TEST PROTOCOL	()	
*IN-0173	FERTILIZER CORPORATION	6/4/2014	RAW WATER PUMP) HP	YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES		5 G/BHP-H	3-HR AVERAGE	0			()	
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfu	ır Diesel			Clean Fuel	0.0	6 lb/MMBtu	1-hr average	0.11	LB/H	1-hour average			
	Catoctin Power LLC		Firewater Pump	Ultra Low Sulfi	370	kW		ULSD (<0.05% S); Good Combustion Practices	0.8	1 LB/H	3-hr average	100	hr/yr				
	Footprint Power Salem Harbor Development LP Footprint Power		Fire Pump	ULSD	80) MMBtu/hr		Pipeline quality NG	0.1	2 LB/H	1-hr average	0.15	g/b-hp-hr	1-hr average			
	Salem Harbor Development LP		Fire Pump	ULSD	80) MMBtu/hr		Pipeline quality NG	0.	2 g/KW-hr	1-hr average						
	CPV Valley Energy Center Wawayanda,																
ļ	NY Hess Newark Energy		Fire Pump	ULSD	32:	5 bhp		Low sulfur fuel.	0.04	3 lb/MMBtu	1-hr average						
	Center		Fire Pump	ULSD	270	HP			1.2	4 LB/H							

Table D-E-5 Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	DONLIN GOLD		Fire Pump Diesel Internal Combustion				Three (3) 252 hp fire pump diesel internal	Clean Eval and Good Combustion									
*AK-0084	PROJECT	6/30/2017	Engines DFP1-13 - Diesel	Diesel	25	2 hp	combustion engines.	Practices	0.1	G/KW-HR	3-HOUR AVERAGE		0			0	
*LA-0312	ST. JAMES METHANOL PLANT	6/20/2017	Fire Pump Engine (EQT0013)	Diesel	(5	D b	Operating hour limit: 100 hr/yr	Compliance with NSPS Subpart IIII	0.1	LB/HR							
*LA-0312	METHANOL PLANT	6/30/2017	(EQ10013)	Diesei	63	0 horsepower	Operating nour limit: 100 nr/yr	Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40	0.1.	LB/IIK			0			0	
			SCPS Emergency					CFR 60 Subpart IIII, and good									
LA-0313	ST. CHARLES POWER STATION	8/31/2016	Diesel Firewater Pump 1	Diesel	28	2 HP		combustion practices (use of ultra- low sulfur diesel fuel).		LB/H	HOURLY MAXIMUM	0.	02 T/YR	ANNUAL MAXIMUM	0.15	G/BHP-H	
LA-0316	CAMERON LNG FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	46	0 hp		Complying with 40 CFR 60 Subpart IIII					0			0	
	METHANEX - GEISMAR METHANOL		Firewater pump					complying with 40 CFR 60 Subpart									
LA-0317	PLANT	12/22/2016	Engines (4 units)	diesel	89	6 hp (each)		IIII and 40 CFR 63 Subpart ZZZZ Proper operation and limits on hours					0			0	
	MONSANTO LULING		Fire Water Diesel				Emergency engine with a limit of 100 hours/yr on operating hours for ready	operation for emergency engines and compliance with 40 CFR 60 Subpart	1								
LA-0323	PLANT	1/9/2017	Pump No. 3 Engine	Diesel Fuel	60	0 hp	testing.	IIII)			0		(0	
								Proper operation and limits on hours	;								
	MONSANTO LULING		Fire Water Diesel				Emergency Engine limited to 100 hours/yr	of operation for emergency engines and compliance with 40 CFR 60									
LA-0323	PLANT	1/9/2017	Pump No. 4 Engine Dieself fire pump	Diesel Fuel	60	0 hp	for ready tests	Subpart IIII	')			0		(0	
	GRAYLING		engine (EUFIREPUMP in				One diesel fire pump engine rated at 400 KW (identified as EUFIREPUMP in	operation and combustion practices.			TEST PROTOCOL WILL SPECIFY						
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	50	0 H/YR	FGRICE). A 260 brake norsepower (bnp) diesei-	Operational restrictions/limited use.	0.13	LB/H	AVG TIME		0			0	
							fueled emergency engine manufactured in 2011 or later and a displacement of <10										
							liters/cylinder. Powers a fire pump used for a back up during an emergency										
							(EUFPENGINE). Restricted to 1										
			EUFPENGINE				hour/day, except during emergency conditions and stack testing, and 100										
MI-0423	INDECK NILES, LLC	1/4/2017	(Emergency engine- diesel fire pump)	Diesel	1.6	6 MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices	0.5	LB/H	HOURLY		0			0	
			EUFIREPUMP in					Certified engines. Good design,									
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	FGRICE (Diesel fire pump engine)	Diesel	50	0 H/YR	One diesel fire pump engine rated at 400 KW (EUFIREPUMP in FGRICE).	operation and combustion practices. Operational restrictions/limited use.	0.13	LB/H	TEST PROTOCOL SHALL SPECIFY		0				
							A 300 HP diesel-fired emergency fire pump engine with a model year of 2011 or										
	MEC NORTH, LLC		EUFPENGINE (South Plant): Fire				later, and a displacement of <30 liters/cylinder. Equipped with a diesel	Diesel particulate filter, good combustion practices and meeting									
*MI-0433	AND MEC SOUTH LLC	6/29/2018	pump engine	Diesel	30	0 HP	particulate filter. A 300 HP diesel-fired emergency fire	NSPS Subpart IIII requirements.	0.6	LB/H	HOURLY		0			0	
			EUFPENGINE				pump engine with a model year of 2011 or later, and a displacement of <30	Discolar stimulate files and									
	MEC NORTH, LLC		(North Plant): Fire				liters/cylinder. Equipped with a diesel	Diesel particulate filter, good combustion practices and meeting									
*MI-0433	AND MEC SOUTH LLC	6/29/2018	pump engine	Diesel	30	0 HP	particulate filter.	NSPS Subpart IIII requirements.	0.6	LB/H	HOURLY		0			0	
							A 399 brake HP diesel-fueled emergency fire pump engine with a model year of										
	BELLE RIVER COMBINED CYCLE		EUFPENGINE: Fire				2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier										
*MI-0435	POWER PLANT PSEG FOSSIL LLC	7/16/2018	pump engine	Diesel	39	9 BHP	3 certified engine subject to NSPS IIII.	State of the art combustion design.	0.1	LB/H	HOURLY		0			0	
	SEWAREN GENERATING		Emergency Diesel				Maximum heat Input Rate = 2.6	use of ULSD a clean burning fuel,									
NJ-0084	STATION	3/10/2016	Fire Pump DIESEL-FIRED	ULSD	10	0 H/YR	MMBtu/hr	and limited hours of operation	0.	LB/H			0			0	
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	WATER PUMP 376	DIESEL FUEL			FWP-1: 104.0 tons/year (12-month	Ultra Low Sulfur Diesel/Fuel (15		G/HP-H	DED IID						
	KENAI NITROGEN		bph (1) Diesel Fired Well				rolling total) 2.7 MMBtu/hr Diesel Fired Well Pump.	ppm max)			PER HR		0				
*AK-0083	OPERATIONS BLYTHE ENERGY		Pump	Diesel		7 MMBtu/hr	Installed in 1966.	Limited Operation of 168 hr/yr.		LB/MMBTU			0		1		
CA-1144	PROJECT II	4/25/2007	FIRE PUMP	DIESEL	30.	3 HP			0.	LB/H			0		1	0	
			EMERGENCY					USE ULTRA LOW SULFUR FUEL NOT TO EXCEED 15 PPMVD									
CA-1192	AVENAL ENERGY PROJECT	6/21/2011	FIREWATER PUMP ENGINE	DIESEL	28	8 HP		FUEL SULFUR, OPERATIONAL LIMIT OF 50 HRS/YR					0			0	
	IOWA FERTILIZER										AVERAGE OF 3 STACK TEST			ROLLING 12			
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	1-	4 GAL/H	rated @ 235 KW	good combustion practices	0.:	G/KW-HR	RUNS	0.	03 T/YR	MONTH TOTAL		0	

Table D-E-5 Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT													STANDARD		
RBLCID	FACILITY NAME	ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION LIMIT	UNITS	AVG TIME CONDITION
								Tier IV standards for non-road									
*IL-0114	CRONUS CHEMICALS,	9/5/2014	Firewater Pump	distillate fuel oil	37	12 ha		engines at 40 CFR 1039.102, Table	0.1	G/KW-HR					1 .	0	
11.0114	LLC	2/3/2014	TWO (2)	distinate ruer on	37	J IIP	THE TWO FIREWATER PUMP	-	0.1	G/KW-IIK			-				
			FIREWATER				ENGINES, IDENTIFIED AS FP01 AND										
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/2/2012	PUMP DIESEL ENGINES	DIESEL	,,	1 BHP, EACH	FP02, EXHAUSTING THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/B-HP-H			HOURS OF 00 OPERATIO	VEADIN			
1111-0136	MIDWEST	12/3/2012	ENGINES	DIESEL	37	I BHF, EACH	OPERATION LIMITED TO 500 HOURS	CONTROLS AND USAGE LIMITS	0.13	G/B-III-II		,	JO OFEKATIO	N I LAKET		0	
	FERTILIZER						PER YEAR. INSIGNIFICANT	GOOD COMBUSTION									
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP DIESEL-FIRED		50	00 HP	ACTIVITY, WILL NOT BE TESTED.	PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0		+	0	
	OHIO VALLEY		EMERGENCY	NO. 2 FUEL			ANNUAL OPERATION LIMITED TO	GOOD COMBUSTION									
*IN-0179	RESOURCES, LLC	9/25/2013	WATER PUMP	OIL	48	BHP	200 HR,	PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0			0	
	MIDWEST						OPERATION LIMITED TO 500 HOURS	COOD COLENIATION									
*IN-0180	FERTILIZER CORPORATION	6/4/2014	FIRE PUMP		50	0 HP	PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0			0	
11 0100		0/1/2011			30	- I	TRETTITI, WILL NOT BE TESTES.	GOOD ENGINE DESIGN AND	0.13	G/D III II							
	CRESCENT CITY		DIESEL FIRED					PROPER OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	POWER	6/6/2005	WATER PUMP				425 HP	PRACTICES USE OF LOW-SULFUR FUELS,	0.14	LB/H	MAXIMUM	0.0	04 T/YR	MAXIMUM	0.1	5 G/B-HP-H	AVERAGE
								LIMITING OPERATING HOURS									
	ARSENAL HILL		DFP DIESEL FIRE					AND PROPER ENGINE									
LA-0224	POWER PLANT FLOPAM INC.	3/20/2008		DIESEL	31	0 HP	EQT-016	MAINTENANCE	0.68	LB/H	MAX		0			0	
LA-0251	FACILITY	4/26/2011	Fire Pump Engines - 2 units	diesel	44	14 hp	each		0.01	LB/H		0.0	01 T/YR		0.1	5 G/HP-H	
	NINEMILE POINT							ULTRA LOW SULFUR DIESEL									
	ELECTRIC		EMERGENCY FIRE					AND GOOD COMBUSTION			ANNUAL			ANNUAL			
LA-0254	GENERATING PLANT SALEM HARBOR	8/16/2011	PUMP	DIESEL	35	60 HP	â‰	PRACTICES	0.15	G/B-HP-H	AVERAGE	0.	15 G/B-HP-H	AVERAGE			
	STATION						rolling period				1 HR BLOCK			1 HR BLOCK			
*MA-0039	REDEVELOPMENT	1/30/2014	Fire Pump Engine	ULSD	2.	7 MMBtu/hr	S in ULSD: â‰□0.0015% by weight		0.15	G/B-HP-H	AVERAGE	0.	12 LB/H	AVERAGE		0	
			INTERNAL COMBUSTION ENGINE - EMERGENCY FIRE														
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP EMERGENCY	DIESEL	30	0 HP			0.15	G/B-HP-H			0		+	0	
			DIESEL ENGINE	ULTRA-LOW			40 CFR 60, SUBPART IIII, ULTRA LOW	EXCLUSIVE USE OF ULTRA									
			FOR FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	LOW SULFUR FUEL AND GOOD									
*MD-0041	CPV ST. CHARLES	4/23/2014	PUMP	DIESEL	30	0 HP	COMBUSTION PRACTICES	COMBUSTION PRACTICES EXCLUSIVE USE OF ULSD	0.15	G/B-HP-H	N/A		0		-	0	
	WILDCAT POINT GENERATION		EMERGENCY DIESEL ENGINE FOR FIRE WATER	ULTRA LOW SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW SULFUR DIESEL FUEL, GOOD	FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS									
*MD-0042	FACILITY	4/8/2014		DIESEL	47	77 HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.15	G/B-HP-H		0.3	23 G/KW-HR			0	
	PERRYMAN		EMERGENCY DIESEL ENGINE	ULTRAL LOW				GOOD COMBUSTION PRACTICES, LIMITED HOURS	1			1					
	GENERATING	1	FOR FIRE WATER	SULFUR			40 CFR 60, SUBPART IIII, GOOD	OF OPERATION, AND	1		FILTERABLE +	1	1		1		
*MD-0043	STATION	7/1/2014		DIESEL	35	0 HP	COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD	0.17	G/B-HP-H	CONDENSIBLE	0.	15 G/B-HP-H	FILTERABLE	1	0	
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	5 EMERGENCY FIRE WATER PUMP ENGINES	ULTRA LOW SULFUR DIESEL	35	50 HP	40 CFR 60, SUBPART IIII, ULTRA LOW SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.17	G/B-HP-H		0.3	23 G/KW-HR			0	
	KARN WEADOCK			ULTRA LOW				ENGINE DESIGN AND									
MI-0389	GENERATING COMPLEX	12/29/2009	FIRE BOOSTER	SULFUR DIESEL		10 KW	OPERATIONAL LIMITS 1 HR/DAY AND 500 HRS/YR FOR PM2.5 NAAOS.	OPERATION. 15 PPM SULFUR FUEL.	0.21	LB/MMBTU	TEST METHOD				1 .		
IVII-0389	COMPLEX	12/29/2009	PUMP	DIESEL	 	HU K W	Maximum operation was based on 500	FUEL.	0.31	LB/MMBTU	TEST METHOD TEST PROTOCOL;	 	U	1	+ '	0	+
*MI-0400	WOLVERINE POWER	6/29/2011	Fire Pump	Diesel	42	0 HP	hours per year. This is a diesel fuel fired emergency		0.14	LB/H	BACT		0		1	0	
							backup fire mump. It has a capacity of 315 hp, nameplate, and uses diesel fuel ASTM D975 Grade 2-D S15.										
	THETEORE		EU-FPENGINE:				Ultra low sulfur diesel fuel (15ppmw);		1		TEGT PROTOGET						
	THETFORD GENERATING		Diesel fuel fired emergency backup				100 hours per year operation for maintenance and readiness testing. NSPS	Proper combustion decion and ultra	1		TEST PROTOCOL WILL SPECIFY						
*MI-0410	STATION	7/25/2013	fire pump	diesel fuel	31	5 hp nameplate	IIII and NESHAP ZZZZ.	low sulfur diesel fuel	0.6	LB/H	AVG. TIME	1	0	1	1	اه	1

Table D-E-5 Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

																1	
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
							A 165 hoursepower (hp) diesel-fueled emergency engine manufactured in 2013, iwth a heat input of 1.35 MMBTU/hr. Powers a fire pump used for back up										
	HOLLAND BOARD OF PUBLIC WORKS -		Emergency Engine				during an emergency (EUFPENGINE).										
*MI-0412	EAST 5TH STREET	12/4/2013	Diesel Fire Pump (EUFPENGINE)	Diesel	16	55 HP	Restricted to 500 hours/year on a 12- month rolling time period basis.	Good combustion practices	0.09	LB/MMBTU	TEST PROTOCOL					,	
******	EMBERCLEAR GTL	5/0/2014	Eight 325 hp diesel		22										,		
*MS-0092	MS	5/8/2014	firewater pumps IC ENGINE,	diesel	3.2	25 hp			0			-	<u>'</u>			1	
	FORSYTH ENERGY		EMERGENCY FIREWATER														
NC-0101	PLANT	9/29/2005		DIESEL FUEL	11.	4 MMBTU/H	usage limited to 200 h/yr		1.14	LB/H		()		(
*NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/7/2014	Emergency diesel fire pump	Ultra Low Sulfur Distillate oil		0	The fire pump has a maximum heat input rate of 2.63 MMBtu/hr (approximately 250 HP) and is permitted for 100 hrs per year for testing and maintenance SUDDECT IONNES SUDPART IIII.	Use of ultra low sulfur distillate oil	0.15	G/B-HP-H		0.099	LB/H		()	
							WILL INSTALL NON-RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)										
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	FIRE PUMP ENGINES (2)	DIESEL FUEL OIL	30	00 HP	DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.27	LB/H	FOR EACH ENGINE	0.01	7 T/YR	PER ROLLING 12- MONTH PERIOD	0.4	G/HP-H	FROM TABLE 4 OF SUBPART IIII
	OREGON CLEAN		Emergency fire				223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per	Purchased certified to the standards						PER ROLLING 12-			
*OH-0352	ENERGY CENTER	6/18/2013	pump engine EMERGENCY FIRE	diesel	30	00 HP	rolling 12 months.	in NSPS Subpart IIII	0.1	LB/H		0.025	T/YR	MONTHS	(SEE NOTES
	CHOUTEAU POWER		PUMP (267-HP	LOW SULFUR													
OK-0129	PLANT MOXIE LIBERTY	1/23/2009	DIESEL)	DIESEL	26	57 HP			0.24	LB/H		0.4	G/B-HP-H	NSPS	(
	LLC/ASYLUM POWER						The fire pump will be restricted to operate										
PA-0278	PL T MOXIE ENERGY	10/10/2012	Fire Pump	Diesel		0	not more than 100 hr/yr.		0.09	G/B-HP-H		0.09	LB/H		(
*PA-0286	LLC/PATRIOT GENERATION PLT BERKS HOLLOW	1/31/2013	Fire Pump Engine - 460 BHP	Diesel		0			0.09	G/B-HP-H	BASED ON 12-	0.09	LB/H		0.01	T/YR	
	ENERGY ASSOC		Emergency								MONTH ROLLING						
*PA-0296	LLC/ONTELAUNEE ENERGY ANSWERS	12/17/2013	Firewater Pump	Diesel	1	6 Gal/hr	The Emergency Fire Pump is rated at 335		0.005	T/YR	TOTAL)		(1	
	ARECIBO PUERTO RICO RENEWABLE		E	ULSD Fuel Oil			BHP and limited to 500 hr/yr (emergency operations and testing and maintenance,										
*PR-0009	ENERGY PROJECT	4/10/2014	Emergency Diesel Fire Pump	#2		0	combined).		0.15	G/B-HP-H		0.11	LB/H				
	GATEWAY COGENERATION 1, LLC - SMART WATER		FIRE WATER	diesel (ultra low				Clean burning ULSD fuel and good									
VA-0319	PROJECT	8/27/2012	PUMP	sulfur)	1.8	66 MMBTU/H	500 H/Yr operation Each pump engine is 252 HP. They are	combusion practices	0.15	G/B-HP-H		-		1	(
*MI-0399	DETROIT EDISON- MONROE	12/21/2010	4 Diesel-fired quench pumps	Diesel fuel	25	12 HP	limited to emergency use and subject to NSPS Subpart IIII.	Good combustion practices.	0.4	G/B-HP-H	QP1&QP2, EACH; TEST PROTOCOL	0.15	G/B-HP-H	QP3&QP4, EACH; TEST PROTOCOL	()	
	Astoria Energy LLC		Fire Pump	Ultra Low Sulfur Diesel				Clean Fuel	0.06	lb/MMBtu	1-hr average		LB/H	1-hour average			
				Ultra Low				ULSD (<0.05% S); Good									
	Catoctin Power LLC		Firewater Pump	Sulfur Diesel	37	70 kW		Combustion Practices	0.81	LB/H	3-hr average	100	hr/yr				+
	Footprint Power Salem Harbor Development LP		Fire Pump	ULSD	8	0 MMBtu/hr		Pipeline quality NG	0.12	LB/H	1-hr average	0.15	g/b-hp-hr	1-hr average			
	Footprint Power Salem Harbor Development LP		Fire Pump	ULSD	8	0 MMBtu/hr		Pipeline quality NG	0.2	g/KW-hr	1-hr average						
	CPV Valley Energy Center Wawayanda, NY		Fire Pump	ULSD	32	25 bhp		Low sulfur fuel.	0.043	lb/MMBtu	1-hr average						
	Cricket Valley Energy Center		Fire Pump	ULSD	,	.8 MMBtu/hr			0.032	lb/MMBtu		0.08	g/b-hp-hr				
	Pioneer Valley Energy Center		Fire Pump	ULSD		O HP				g/KW-hr		0.08	д о-пр-ш				
	Hess Newark Energy Center		Fire Pump	ULSD	27	70 HP			0.00	LB/H		0.000	T/YR				
	Center		li ne rumb	CLSD	1 27	VIII	I .	l .	0.09	LD/11	1	0.00	/11/1K	1	1		1

Table D-E-6 Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

,																	
RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNITS	AVG TIME CONDITION
									İ								1
	DONLIN GOLD		Fire Pump Diesel Internal Combustion				Three (3) 252 hp fire pump diesel interna	Clean Fuel and Good Combustion									
*AK-0084	PROJECT	6/30/2017	Engines	Diesel	252	hp	combustion engines.	Practices	0.19	G/KW-HR	3-HOUR AVERAGE		0			0	
	ST. JAMES		DFP1-13 - Diesel														
	METHANOL		Fire Pump Engine			l.	I										
*LA-0312	PLANT	6/30/2017	(EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NSPS IIII Compliance with NESHAP 40 CFR 63	0.15	LB/HR		· ·	0	-		0	+
								Subpart ZZZZ and NSPS 40 CFR 60									
			SCPS Emergency					Subpart IIII, and good combustion									
	ST. CHARLES		Diesel Firewater					practices (use of ultra-low sulfur diesel			HOURLY			ANNUAL			
LA-0313	POWER STATION	8/31/2016		Diesel	282	HP		fuel).	0.09	LB/H	MAXIMUM	0.0	2 T/YR	MAXIMUM		0	
LA-0316	CAMERON LNG FACILITY	2/17/2017	firewater pump engines (8 units)	diesel	460	ha		Complying with 40 CFR 60 Subpart IIII					0			0	
LA-0310	METHANEX -	2/1//201/	engines (8 units)	diesei	400	np		Comprying with 40 CFR 60 Subpart ini	1				-			0	+
	GEISMAR																
	METHANOL		Firewater pump					complying with 40 CFR 60 Subpart IIII									
LA-0317	PLANT	12/22/2016	Engines (4 units)	diesel	896	hp (each)		and 40 CFR 63 Subpart ZZZZ	(0	-		0	
							Emergency engine with a limit of 100	Proper operation and limits on hours									
	MONSANTO		Fire Water Diesel				hours/yr on operating hours for ready	operation for emergency engines and									
LA-0323	LULING PLANT	1/9/2017		Diesel Fuel	600	hp	testing.	compliance with 40 CFR 60 Subpart IIII	(0			0	
								n									
	MONSANTO		Fire Water Diesel				Emergency Engine limited to 100 hours/y	Proper operation and limits on hours of									
LA-0323	LULING PLANT	1/9/2017	Pump No. 4 Engine	Diesel Fuel	600	hn	for ready tests	compliance with 40 CFR 60 Subpart IIII					0			0	
			Dieself fire pump														1
			engine				One diesel fire pump engine rated at 400		n		TEST PROTOCOL						
	GRAYLING	0/2//201/	(EUFIREPUMP in	n	500	YY AZD	KW (identified as EUFIREPUMP in	and combustion practices. Operational		1 D // 1	WILL SPECIFY						
MI-0421	PARTICLEBOARD	8/26/2016	FGRICE)	Diesel	500	H/YR	FGRICE). A 260 brake horsepower (bhp) diesel-	restrictions/limited use.	0.18	LB/H	AVG TIME		0			0	+
							fueled emergency engine manufactured in										
							2011 or later and a displacement of <10										
							liters/cylinder. Powers a fire pump used										
							for a back up during an emergency										
							(EUFPENGINE). Restricted to 1 hour/day, except during emergency										
			EUFPENGINE				conditions and stack testing, and 100										
	INDECK NILES.		(Emergency engine				hours/year on a 12-month rolling time										
MI-0423	LLC	1/4/2017	diesel fire pump)	Diesel	1.66	MMBTU/H	period basis.	Good combustion practices		LB/H	HOURLY		0			0	
			EUFIREPUMP in					Certified engines. Good design, operation	n								
MI-0425	GRAYLING PARTICLEBOARD	5/0/2017	FGRICE (Diesel fire	Diesel	500	H/YR	One diesel fire pump engine rated at 400 KW (EUFIREPUMP in FGRICE).	and combustion practices. Operational restrictions/limited use.		LB/H	TEST PROTOCOL SHALL SPECIFY						
MI-0425	PARTICLEBUARD	5/9/201/	pump engine)	Diesel	500	H/YK	A 300 HP diesel-fired emergency fire	restrictions/limited use.	0.18	LB/H	SHALL SPECIFY		0			0	
							pump engine with a model year of 2011 or	r									
	MEC NORTH, LLC		EUFPENGINE				later, and a displacement of <30	Diesel particulate filter, good combustion									
	AND MEC SOUTH		(South Plant): Fire				liters/cylinder. Equipped with a diesel	practices and meeting NSPS Subpart IIII									
*MI-0433	LLC	6/29/2018	pump engine	Diesel	300	HP	particulate filter. A 300 HP diesel-fired emergency fire	requirements.	0.66	LB/H	HOURLY		0			0	
							pump engine with a model year of 2011 or										
	MEC NORTH, LLC		EUFPENGINE				later, and a displacement of <30	Diesel particulate filter, good combustion									
	AND MEC SOUTH		(North Plant): Fire				liters/cylinder. Equipped with a diesel	practices and meeting NSPS Subpart IIII									
*MI-0433	LLC	6/29/2018	pump engine	Diesel	300	HP	particulate filter.	requirements.	0.66	LB/H	HOURLY		0			0	
						1	A 399 brake HP diesel-fueled emergency										
	BELLE RIVER			1			fire pump engine with a model year of	1									
	COMBINED						2011 or later, and a displacement of <10										
	CYCLE POWER		EUFPENGINE: Fire				liters/cylinder. The engine is an EPA Tie										
*MI-0435	PLANT	7/16/2018	pump engine	Diesel	399	BHP	3 certified engine subject to NSPS IIII.	State of the art combustion design.	0.13	LB/H	HOURLY		0			0	
	PSEG FOSSIL LLC SEWAREN			1				1									
	GENERATING		Emergency Diesel			1	Maximum heat Input Rate = 2.6	use of ULSD a clean burning fuel, and									
NJ-0084	STATION	3/10/2016	Fire Pump	ULSD	100	H/YR	MMBtu/hr	limited hours of operation	0.1	LB/H			0			0	
		10.2010	DIESEL-FIRED		100			·	1								1
	GREENSVILLE		WATER PUMP 376			1	FWP-1: 104.0 tons/year (12-month	Ultra Low Sulfur Diesel/Fuel (15 ppm									
*VA-0325	POWER STATION	6/17/2016	bph (1)	DIESEL FUEL	+ (1	rolling total)	max)	0.3	G/HP-H	HR	-	0	+	+	0	+
	KENAI NITROGEN		Diesel Fired Well	1			2.7 MMBtu/hr Diesel Fired Well Pump.	1									
*AK-0083	OPERATIONS	1/6/2015	Pump	Diesel	2.5	MMBtu/hr	Installed in 1966.	Limited Operation of 168 hr/yr.	0.31	LB/MMBTU			0			0	
	VICTORVILLE 2		EMERGENCY					OPERATIONAL RESTRICTION OF 50									
	HYBRID POWER		FIREWATER			1	135 KW (182 hp) IC Diesel-fired	HR/YR, OPERATE AS REQUIRED FOR									
CA-1191	PROJECT	3/11/2010	PUMP ENGINE	DIESEL	135	KW	Emergency Firewater Pump Engine	FIRE SAFETY TESTING	0.2	G/KW-HR	AVERAGE OF 3	0.1	5 G/B-HP-H		+	0	
	IOWA FERTILIZER			1				1			AVERAGE OF 3 STACK TEST			ROLLING 12			
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.3	G/KW-HR	RUNS	0.0	3 T/YR	MONTH TOTAL		0	
2.10103	CRONUS		Firewater Pump	areset tuet	1	G. 1211	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tier IV standards for non-road engines at		C.KW-IIK	1.0.10	0.0	J 1/1K		1	-	+
*IL-0114	CHEMICALS, LLC	9/5/2014	Engine	distillate fuel oil	373	hp		40 CFR 1039.102, Table 7.	0.1	G/KW-HR			0			0	
						• •	•	•		•				•	•		

Table D-E-6 Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT		1											STANDARD		
		ISSUANCE		PRIMARY		THROUGHPUT			EMISSION		AVG TIME	EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
i			TWO (2)				THE TWO FIREWATER PUMP										
	ST. JOSEPH		FIREWATER				ENGINES, IDENTIFIED AS FP01 AND										
	ENEGRY CENTER,		PUMP DIESEL				FP02, EXHAUSTING THROUGH TWO						HOURS OF				
*IN-0158	LLC	12/3/2012	ENGINES	DIESEL	37	BHP, EACH	(2) VENTS.	AND USAGE LIMITS	0.15	G/B-HP-H	3 HOURS	50	0 OPERATION	YEARLY		0	
	MIDWEST FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR, INSIGNIFICANT										
*IN-0173	CORPORATION	C/4/201	FIRE PUMP			HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES		C TO THE TI	3-HR AVERAGE	l .					
*IN-01/3	CORPORATION	6/4/2014	DIESEL-FIRED		50	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.13	G/B-HP-H	3-HK AVERAGE	· '	0			0	
	OHIO VALLEY		EMERGENCY	NO. 2 FUEL			ANNUAL OPERATION LIMITED TO										
*IN-0179	RESOURCES, LLC	9/25/2013	WATER PUMP	OII.	48	BHP	200 HR.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE	Ι,	0			0	
	MIDWEST	,,_,,					OPERATION LIMITED TO 500 HOURS		****								
	FERTILIZER						PER YEAR. INSIGNIFICANT										
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		50	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE		0			0	
	NINEMILE POINT																
	ELECTRIC																
	GENERATING		EMERGENCY FIRE					ULTRA LOW SULFUR DIESEL AND			ANNUAL						ANNUAL
LA-0254	PLANT SALEM HARBOR	8/16/2011	PUMP	DIESEL	35	HP		GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	AVERAGE	,	0		- 0	.15 G/HP-H	AVERAGE
	STATION						≤ 300 hours of operation per 12-month						1			- 1	
	REDEVELOPMEN						rolling period				1 HR BLOCK		1	1 HR BLOCK		- 1	
*MA-0039	T	1/30/2014	Fire Pump Engine	ULSD	,	MMBtu/hr	S in ULSD: â‰0.0015% by weight		0.15	G/B-HP-H	AVERAGE	0.11	2 LB/H	AVERAGE		0	
3037	f -	1, 30, 201-					CLOD. a.o0.001570 by weight	<u> </u>	0.13	3.5 m-m		0.1.			+	1	1
			INTERNAL										1			- 1	
			COMBUSTION										1			- 1	
			ENGINE -														
			EMERGENCY FIRE														
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP	DIESEL	30	HP			0.15	G/B-HP-H		(0			0	
								EXCLUSIVE USE OF ULSD FUEL,									
	WILDCAT POINT		EMERGENCY DIESEL ENGINE	ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW	GOOD COMBUSTION PRACTICES,									
	GENERATION		FOR FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE									
*MD-0042	FACILITY	4/8/2014		DIESEL	47	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.15	G/B-HP-H		0.2	3 G/KW-H			0	
*MD-0042	FACILII 1	4/8/2014	FUMP	DIESEL	4/	пР	COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL,	0.13	О/В-ПР-П	+	0.2.	3 G/KW-II			0	
			5 EMERGENCY	ULTRA LOW			40 CFR 60, SUBPART IIII, ULTRA LOW										
	COVE POINT LNG		FIRE WATER	SULFUR			SULFUR DIESEL FUEL, GOOD	AND DESIGNED TO ACHIEVE									
*MD-0044	TERMINAL	6/9/2014	PUMP ENGINES	DIESEL	35	HP	COMBUSTION PRACTICES	EMISSION LIMITS	0.17	G/B-HP-H		0.2:	3 G/KW-H			0	
	WOLVERINE						Maximum operation was based on 500				TEST PROTOCOL;						
*MI-0400	POWER	6/29/2011	Fire Pump	Diesel	42	HP	hours per year. This is a diesel fuel fired emergency		0.14	LB/H	BACT		0			0	
							backup fire mump. It has a capacity of										
							315 hp, nameplate, and uses diesel fuel										
							ASTM D975 Grade 2-D S15.										
							TESTIN 1977 GIAGO 2 19 513.										
			EU-FPENGINE:				Ultra low sulfur diesel fuel (15ppmw);										
	THETFORD		Diesel fuel fired				100 hours per year operation for				TEST PROTOCOL						
	GENERATING		emergency backup				maintenance and readiness testing. NSPS	Proper combustion design and ultra low			WILL SPECIFY						
*MI-0410	STATION	7/25/2013	fire pump	diesel fuel	31	hp nameplate	IIII and NESHAP ZZZZ.	sulfur diesel fuel.	0.6	LB/H	AVG. TIME		0			0	
			' '														
							A 165 hoursepower (hp) diesel-fueled						1			- 1	
							emergency engine manufactured in 2013,						1			- 1	
	WOLL IND DO : 22						iwth a heat input of 1.35 MMBTU/hr.				1		1			- 1	
	HOLLAND BOARD OF PUBLIC		F	1	1		Powers a fire pump used for back up			1		1	1			- 1	
	WORKS - EAST		Emergency Engine Diesel Fire Pump	1			during an emergency (EUFPENGINE). Restricted to 500 hours/year on a 12-				1		1			- 1	
*MI-0412	5TH STREET	12/4/2015	(EUFPENGINE)	Diesel	1/	HP	month rolling time period basis.	Good combustion practices	0.00	LB/MMBTU	TEST PROTOCOL] .	ا				
1/11-0412	EMBERCLEAR	12/4/2013	Eight 325 hp diesel	Diesei	16	, iir	monur rotting time period basis.	Good combustion practices	0.09	LD/MINIBIU	ILSI PROTOCOL	 		1	+	V	1
*MS-0092	GTL MS	5/8/2014	firewater pumps	diesel	32	hp			0				0			0	
	PSEG FOSSIL LLC						The fire pump has a maximum heat input				1		1			- 1	
	SEWAREN			Ultra Low			rate of 2.63 MMBtu/hr (approximately						1			- 1	
	GENERATING		Emergency diesel	Sulfur Distillate			250 HP) and is permitted for 100 hrs per										
*NJ-0081	STATION	3/7/2014	fire pump	oil)	year for testing and maintenance	Use of Ultra low sulfur distillate oil	0.15	G/B-HP-H		0.09	9 LB/H			0	1
	MOXIE LIBERTY LLC/ASYLUM						The feet annual will be an existent to				1		1			- 1	
PA-0278	POWER PL T	10/10/2015	2 Fire Pump	Diesel		,	The fire pump will be restricted to operat- not more than 100 hr/yr.		0.00	G/B-HP-H	1	0.00	9 LB/H				
FA-02/8	FOWER PL I	10/10/2012	rne rump	Diesei	<u> </u>	<u>'</u>	not more than 100 nr/yr.		0.09	о/в-пг-п	+	0.0	7 LD/П	1	+	V	1
	MOXIE ENERGY			1	1		1			1		1	1			- 1	
	LLC/PATRIOT		Fire Pump Engine -										1			- 1	
*PA-0286	GENERATION PLT	1/31/2013	3 460 BHP	Diesel					0.09	G/B-HP-H	1	0.0	9 LB/H		0	.01 T/YR	
			•		•	•	•	•					•	•			•

Table D-E-6 Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT ISSUANCE		PRIMARY		THROUGHPUT			EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	BERKS HOLLOW																1
	ENERGY ASSOC										BASED ON 12-						
	LLC/ONTELAUNE		Emergency								MONTH ROLLING						
*PA-0296	E ENERGY	12/17/2013	Firewater Pump	Diesel	16	Gal/hr			0.005	T/YR	TOTAL	-	0		· ·	0	
	ANSWERS																
	ARECIBO PUERTO						The Emergency Fire Pump is rated at 335										
	RICO						BHP and limited to 500 hr/yr (emergency										
	RENEWABLE		Emergency Diesel	ULSD Fuel Oil			operations and testing and maintenance,										
*PR-0009	ENERGY PROJECT	4/10/2014		#2	1		combined).		0.15	G/B-HP-H		0.11	1 LB/H		l .	n	
110 0007	GATEWAY	10/2014	r ne r amp				Combined).		0.13	G.D.III-II		0.11				1	
	COGENERATION																
	1, LLC - SMART		FIRE WATER	diesel (ultra low				Clean burning ULSD fuel and good									
VA-0319	WATER PROJECT	8/27/2012	PUMP	sulfur)	1.86	MMBTU/H	500 H/Yr operation	combustion practices.	0.15	G/B-HP-H			0			0	
	MOUNDSVILLE																
	COMBINED																
	CYCLE POWER																
*WV-0025	PLANT	11/21/2014	Fire Pump Engine	Diesel	251	HP	Limited to 100 Hours/year.		0			(0		0.1	5 G/HP-HR	
	MIDWEST						OPERATION NOT TO EXCEED 500										
	FERTILIZER		RAW WATER				HOURS PER YEAR. INSIGNIFICANT										
*IN-0180	CORPORATION	6/4/2014	PUMP	DIESEL, NO. 2	500	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE	(0			0	
	DETROIT EDISON-		4 Diesel-fired				Each pump engine is 252 HP. They are				ODIA ODA ELGII			QP3&QP4 EACH;			
*MI-0399	MONROE			Diesel fuel	252	HP	limited to emergency use and subject to NSPS Subpart IIII.	Good combustion practices		G/B-HP-H	QP1&QP2 EACH; TEST PROTOCOL	0.14	G/B-HP-H	TEST PROTOCOL	l .		
*MI-0399	MIDWEST	12/21/2010	quench pumps	Diesei luei	232	пР	OPERATION NOT TO EXCEED 500	Good combustion practices	0.4	G/В-ПР-П	TEST PROTOCOL	0.13	б б/В-ПР-П	TEST PROTOCOL	· ·	U	+
	FERTILIZER		RAW WATER				HOURS PER YEAR, INSIGNIFICANT										
*IN-0173	CORPORATION	6/4/2014		DIESEL, NO. 2	500	HP	ACTIVITY, WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/B-HP-H	3-HR AVERAGE	1 (ol .		l .	n	
	Footprint Power	3/1/2011		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		The state of the s		0.13		- IIII III EIGIGE	 	_				+
	Salem Harbor																
1	Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	0.12	LB/H	1-hr average	0.15	5 g/b-hp-hr	1-hr average			
	Footprint Power		•														1
	Salem Harbor																
	Development LP		Fire Pump	ULSD	80	MMBtu/hr		Pipeline quality NG	0.2	g/KW-hr	1-hr average						
	CPV Valley Energy																
	Center Wawayanda,			I				1	1								
	NY Colored Volley		Fire Pump	ULSD	325	bhp		Low sulfur fuel.	0.043	lb/MMBtu	1-hr average		1				
	Cricket Valley		E: P	ULSD	1	MMBtu/hr		1	0.022	lb/MMBtu		0.00	7 - /2 2 - 2 - 2				
	Energy Center		Fire Pump	ULSD	2.8	MMBtu/hr			0.032	Ib/MMBtu		0.08	7 g/b-hp-hr				

Table D-E-7 Sulfur Dioxide (SO₂) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

	1	IPERMIT								1			_		ISTANDARD	_	
		ISSUANCE		PRIMARY		THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	PROCESS NAME	FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	OKEECHOBEE CLEAN		One 422-hp emergency				BACT limits equal to NSPS Subpart IIII limits. Will use			% S IN							
FL-0356	ENERGY CENTER	3/9/2016	fire pump engine	ULSD	0		IIII certified engine.	Use of ULSD	0.0015	ULSD		0			0		
	DANIA BEACH		Emergency Fire Pump							PPM S IN							
*FL-0363	ENERGY CENTER	12/4/2017	Engine (422 hp)	ULSD	0		Limits equal Subpart IIII limits	Clean fuel	15	FUEL		0	+		0	+	
							A 260 brake horsepower (bhp) diesel-fueled emergency										
							engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump										
							used for a back up during an emergency										
			EUFPENGINE				(EUFPENGINE). Restricted to 1 hour/day, except	Good combustion practices			FUEL SUP. CERT.						
			(Emergency engine		1.66		during emergency conditions and stack testing, and 100			PPM	RECORDS OR						
MI-0423	INDECK NILES, LLC	1/4/2017	diesel fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	requirements.	15	PPM	SAMPLE TEST FUEL SUPPLIER	0	_		0	_	
			EUFPENGINE (South				A 300 HP diesel-fired emergency fire pump engine with	Good combustion practices			RECORDS OR						
	MEC NORTH, LLC		Plant): Fire pump				a model year of 2011 or later, and a displacement of <30				FUEL SAMPL						
*MI-0433	AND MEC SOUTH LLC	6/29/2018	engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	requirements.	15	PPM	DATA	0	+		0		
			EUFPENGINE (North				A 300 HP diesel-fired emergency fire pump engine with	Good combustion practices									
	MEC NORTH, LLC		Plant): Fire pump				a model year of 2011 or later, and a displacement of <30				FUEL SUPPLIER						
*MI-0433	AND MEC SOUTH LLC	6/29/2018	engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	requirements.	15	PPM	RECORDS	0	+		0	+	
	GREENSVILLE		DIESEL-FIRED WATER					Ultra Low Sulfur Diesel/Fuel									
*VA-0325	POWER STATION	6/17/2016	PUMP 376 bph (1)	DIESEL FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total)	(15 ppm max)	0.0015	LB/MMBTU		0			0		
	PALM BEACH RENEWABLE		Two emergency diesel				The permittee is authorized to construct a 1,000 gallon tank to store ULSD fuel oil for use in the emergency										
FL-0324	ENERGY PARK	12/23/2010	firewater pump engines		250	HP	diesel firewater pump engines.		0.0015	% SULFUR		0			0		
										PPM							
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD	20	MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice and ULSD	15	SULFUR IN FUEL		0			0		
12-0340	EACDERDALE FEATVI	4222014	TWO (2) FIREWATER	CSED	2)	WIWIDIA III	THE TWO FIREWATER PUMP ENGINES,	ULTRA LOW SULFUR	13	TOLL		0					
	ST. JOSEPH ENEGRY		PUMP DIESEL				IDENTIFIED AS FP01 AND FP02, EXHAUSTING	DISTILLATE AND USAGE									
*IN-0158	CENTER, LLC	12/3/2012	ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS.	LIMITS GOOD ENGINE DESIGN	0.0015	% SULFUR		0.043	LB/H		0	+	
	CRESCENT CITY		DIESEL FIRED WATER					AND PROPER OPERATING			HOURLY			ANNUAL			ANNUAL
LA-0192	POWER	6/6/2005	PUMP				425 HP	PRACTICES	0.61	LB/H	MAXIMUM	0.02	T/YR	MAXIMUM	0.65	G/B-HP-H	AVERAGE
								USE OF LOW-SULFUR FUELS, LIMITING									
								OPERATING HOURS AND									
	ARSENAL HILL		DFP DIESEL FIRE					PROPER ENGINE									
LA-0224	POWER PLANT SALEM HARBOR	3/20/2008	PUMP	DIESEL	310	HP	EQT-016	MAINTENANCE	0.64	LB/H	MAX	0	+		0		
	STATION						â‰ 300 hours of operation per 12-month rolling period				1 HR BLOCK						
*MA-0039	REDEVELOPMENT	1/30/2014	Fire Pump Engine	ULSD	2.7	MMBtu/hr	S in ULSD: ≤0.0015% by weight		0.004	LB/H	AVG	0			0		
			INTERNAL COMBUSTION														
			ENGINE -														
			EMERGENCY FIRE														
MD-0040	CPV ST CHARLES	11/12/2008	WATER PUMP	DIESEL	300	HP		USE OF ULTRA-LOW	0	-	SEE NOTE	0	-		0	+	
								DIESEL SULFUR FUEL,									
								LIMITED HOURS OF									
	WILDCAT POINT GENERATION		EMERGENCY DIESEL ENGINE FOR FIRE	ULTRA LOW SULFUR			40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR	OPERATION AND DESIGNED TO MEET			3-HOUR BLOCK						
*MD-0042	FACILITY	4/8/2014	WATER PUMP	DIESEL	477	HP	DIESEL FUEL, GOOD COMBUSTION PRACTICES	SUBPART III LIMITS	0.0049	G/B-HP-H	AVERAGE	0			0		
							LIMITED TO 500 HOURS PER YEAR (12 MONTH				PERCENT BY						
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	9/7/2007	DIESEL FIRE WATER PUMPS (<500 HP)				ROLLING SUM); SULFUR CONTENT OF FUEL RESTRICTS SO2 EMISSIONS.	LIMITED SULFUR IN FUEL; LIMITED HOURS	0.05	% SULFUR	WEIGHT IN FUEL (SULFUR)			1			
WIN-00/0		2/ // 200 /	IC ENGINE,				RESTRICTS SUZ EMISSIONS.	LEVIT ED HOURS	0.03	/0 SULFUR	(SULPUK)	0	+	+	0	+	
	FORSYTH ENERGY		EMERGENCY											1	1		
NC-0101	PLANT PSEG FOSSIL LLC	9/29/2005	FIREWATER PUMP	DIESEL FUEL	11.4	MMBTU/H	usage limited to 200 h/yr	1	0.58	LB/H		0	+	+	0	+	
	SEWAREN			Ultra Low			The fire pump has a maximum heat input rate of 2.63							1	1		
	GENERATING		Emergency diesel fire	Sulfur Distillate			MMBtu/hr (approximately 250 HP) and is permitted for	L		L				1	1.		
*NJ-0081	STATION OREGON CLEAN	3/7/2014	pump Emergency fire pump	oil	0	-	100 hrs per year for testing and maintenance 223.8 kW. Emergency fire pump engine restricted to	Use of Ultra low sulfur fuel oil	0.002	LB/MMBTU		0	1	+	0	+	-
*OH-0352	ENERGY CENTER	6/18/2013	engine	diesel	300	HP	500 hours of operation per rolling 12 months.		0.003	LB/H		0.0008	T/YR		0		
			EMERGENCY FIRE														
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	PUMP (267-HP DIESEL)	LOW SULFUR DIESEL	267	LUD		LOW SULFUR DIESEL	0.11	LB/H				1			
OK-0129	ENERGY ANSWERS	1/23/2009	DIESEL)	DIESEL	20/	1111		LOW SULFUK DIESEL	0.11	LD/II		U	1	+	U .	+	
	ARECIBO PUERTO		L				The Emergency Fire Pump is rated at 335 BHP and							1	1		
*PR-0009	RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Fire	ULSD Fuel Oil			limited to 500 hr/yr (emergency operations and testing and maintenance, combined).		0.003	LB/H				1		1	
L IV-0003	LINEROT PROJECT	17/10/2014	11 milb	1772	Iv	1	рана паписнансе, сонюшея).	-	0.003	LD/II	1	I.		1	12	-1	-

Table D-E-7 Sulfur Dioxide (SO₂) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

RBLCID		PERMIT ISSUANCE DATE		PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES		EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	STANDARD EMISSION LIMIT		AVG TIME CONDITION
		ĺ						USE OF LOW SULFUR									
								FUEL DIESEL, SULFUR									
								CONTENT LESS THAN									
								0.0015 PERCENT.									
							THE CONSTRUCTION PERMIT AUTHORIZES THE										
							CONSTRUCTION OF ONE (1) FIRE PUMP. THIS	THAN 100 HOURS PER									
	PYRAMAX						PROCESS AND POLLUTANT INFORMATION IS	YEAR FOR MAINTENACE									
SC-0113	CERAMICS, LLC	2/8/2012	FIRE PUMP	DIESEL	500	HP	FOR THIS ONE SINGLE FIRE PUMP.	AND TESTING.	0			0			0		
	CHEYENNE PRAIRIE																
	GENERATING		Diesel Fire Pump Engine														
*WY-0070	STATION	8/28/2012		Sulfur Diesel	327	hp		Ultra Low Sulfur Diesel	0			0			0		
				Ultra Low													
	Catoctin Power LLC		Firewater Pump	Sulfur Diesel	370	kW		ULSD (<0.05% S)	0.13	LB/H	3-hr average	100	hr/yr				
	Footprint Power Salem																
ļ	Harbor Development LP		Fire Pump	ULSD	80	MMBtu/hr			0.004	LB/H	1-hr average						
	CPV Valley Energy																
	Center Wawayanda, NY		Fire Pump	ULSD	325	bhp		Low sulfur fuel.	0.0014	lb/MMBtu	1-hr average					1	

Table D-E-8 Sulfuric Acid Mist (H₂SO₄) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

		PERMIT		I							1				ISTANDARD		
		ISSUANCE	PROCESS			THROUGHPUT		CONTROL METHOD	EMISSION			EMISSION		AVG TIME	EMISSION		AVG TIME
RBLCID	FACILITY NAME	DATE	NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
							A 399 brake HP diesel-fueled emergency										
							fire pump engine with a model year of										
	BELLE RIVER						2011 or later, and a displacement of <10				FUEL SUPPLIER						
	COMBINED CYCLE		EUFPENGINE:				liters/cylinder. The engine is an EPA Ties	Good combustion practices, low			RECORDS OR						
*MI-0435	POWER PLANT	7/16/2018	Fire pump engine	Diesel	399	BHP	3 certified engine subject to NSPS IIII.	sulfur fuel.	15	PPM	TEST DATA	0			0		
								Ultra low sulfur diesel with									
	CRICKET VALLEY		Emergency fire					maximum sulfur content 0.0015									
NY-0103	ENERGY CENTER	2/3/2016		ultra low sulfur diesel	460	hp		percent.	0.0001	LB/MMBTU	1 H	0			0		
			DIESEL-FIRED														
	GREENSVILLE POWER		WATER PUMP				FWP-1: 104.0 tons/year (12-month	Ultra Low Sulfur Diesel/Fuel (15									
*VA-0325	STATION SALEM HARBOR	6/17/2016	376 bph (1)	DIESEL FUEL	(rolling total) ≤ 300 hours of operation per 12-month	ppm max)	0.0001	LB/MMBTU		0			- 0		
	STATION						rolling period				1 HR BLOCK						
*MA-0039	REDEVELOPMENT	1/20/2014	Fire Pump Engine	THED	, ,	MMBtu/hr	S in ULSD: ≤0.0015% by weight		0.0003	T D/H	AVERAGE						
WIA-0039	REDEVELOPMENT	1/30/2014	The Fullip Engine	ULSD	2.7	IVIIVIIDIW/III	3 III CL3D: a/160=0.0013/6 by weight		0.0003	LD/II	AVERAGE				-		
								USE OF ULTRA-LOW DIESEL									
			EMERGENCY					SULFUR FUEL, LIMITED									
			DIESEL ENGINE				40 CFR 60, SUBPART IIII, ULTRA LOW										
	WILDCAT POINT		FOR FIRE	ULTRA LOW SULFUR			SULFUR DIESEL FUEL, GOOD	DESIGNED TO MEET SUBPART	1		3-HOUR BLOCK						
*MD-0042	GENERATION FACILITY	4/8/2014	WATER PUMP	DIESEL	477	HP	COMBUSTION PRACTICES	IIII LIMITS	0.0049	G/B-HP-H	AVERAGE	0			0		
			EMERGENCY														
	HICKORY RUN ENERGY		FIREWATER	ULTRA LOW SULFUR			EMERGENCY FIREWATER PUMP							12-MONTH			
*PA-0291	STATION	4/23/2013	PUMP	DISTILLATE	3.25	MMBTU/H	(450 BHP)		0.0012	LB/H		0.0001	T/YR	ROLLING TOTAL	0		
	BERKS HOLLOW			1		1					1						
	ENERGY ASSOC	l	Emergency	L	[l		1						1			
*PA-0296	LLC/ONTELAUNEE	12/17/2013	Firewater Pump	Diesel	16	Gal/hr			1 0	T/PY		0	-		1 0		
	CPV Valley Energy Center Wawayanda, NY	1	r: n	ULSD	227	bhp		Low sulfur fuel.	0.00003	" a a m	l			1			
 	wawayanda, NY		Fire Pump	ULSD	323	bnp		Low suitur tuei.	0.00003	lb/MMBtu	1-hr average						
	Woodbridge Energy Center		Fire Wate Pump	Ultra Low Sulfur Diesel					0.002	lb/MMBtu		15	ppm				

Table D-E-9 Greenhouse Gases (GHG) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

			1					1									
	FACILITY	PERMIT ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
RELEGIE	DONLIN GOLD	Ditte	Fire Pump Diesel Internal	TREMERIT FOLE	IIII.Ocom c1	0.111	Three (3) 252 hp fire pump diesel internal combustion	Discini IIo.	23.012.1	TPY	COMBITION	23.011 2	0.1110	COMPTION	22.742.2	0.1110	CONDITION
*AK-0084	PROJECT	6/30/2017	Combustion Engines	Diesel	252	hp	engines.	Good Combustion Practices	216	(COMBINED)	YEARLY	0			0		
	ST. JAMES					l') í							
	METHANOL		DFP1-13 - Diesel Fire Pump														
*LA-0312	PLANT	6/30/2017	Engine (EQT0013)	Diesel	650	horsepower	Operating hour limit: 100 hr/yr	Compliance with NSPS Subpart IIII	37	TPY		0			0		
	ST. CHARLES		SCPS Emergency Diesel														
LA-0313	POWER STATION	9/21/2016	Firewater Pump 1	Diesel	282	HP		Good combustion practices	0			0			0		
LA-0313	CAMERON LNG	8/31/2010	firewater pump engines (8	Diesei	202	III		Good combustion practices	0			0			10		
LA-0316	FACILITY	2/17/2017	units)	diesel	460	hp		good combustion practices	0			0			0		
	METHANEX -																
	GEISMAR																
	METHANOL		Firewater pump Engines (4		896			complying with 40 CFR 60 Subpart									
LA-0317	PLANT	12/22/2016	units)	diesel	896	hp (each)		IIII and 40 CFR 63 Subpart ZZZZ Proper operation and limits on hours	0			0	-		0		
								operation for emergency engines									
	MONSANTO		Fire Water Diesel Pump No. 3				Emergency engine with a limit of 100 hours/yr on	and compliance with 40 CFR 60									
LA-0323	LULING PLANT	1/9/2017	Engine	Diesel Fuel	600	hp	operating hours for ready testing.	Subpart IIII	0			0			0		
						l'											
								Proper operation and limits on hours									
				1				of operation for emergency engines				1					
	MONSANTO		Fire Water Diesel Pump No. 4				Emergency Engine limited to 100 hours/yr for ready	and compliance with 40 CFR 60							1.		
LA-0323	LULING PLANT	1/9/2017	Engine	Diesel Fuel	600	hp	tests	Subpart IIII	0		BASED UPON A	0			0		
	GRAYLING			1							12-MO	I					
	PARTICLEBOAR		Dieself fire pump engine				One diesel fire pump engine rated at 400 KW	Good combustion and design			ROLLING TIME						
MI-0421	D	8/26/2016		Diesel	500	H/YR	(identified as EUFIREPUMP in FGRICE).	practices.	56	T/YR	PERIOD	0			0		
111 0 121		0/20/2010	(Edineroni mionee)	Dieses	300	III III	<u> </u>	practices.	50	1711	TERROD				0		
							A 260 brake horsepower (bhp) diesel-fueled emergency										
							engine manufactured in 2011 or later and a										
							displacement of <10 liters/cylinder. Powers a fire pump										
							used for a back up during an emergency										
							(EUFPENGINE). Restricted to 1 hour/day, except				12 MO.						
N (1 0 4 2 2	INDECK NILES,	1/4/2017	EUFPENGINE (Emergency	n: 1	1.77	NO CONTLAN	during emergency conditions and stack testing, and 100		12.50	TAID	ROLLING TIME						
MI-0423	GRAYLING	1/4/2017	enginediesel fire pump)	Diesel	1.66	MMBTU/H	hours/year on a 12-month rolling time period basis.	Good combustion practices	13.58	T/YR	PERIOD 12-MO	0	-		0		_
	PARTICLEBOAR		EUFIREPUMP in FGRICE				One diesel fire pump engine rated at 400 KW	Good combustion and design			ROLLING TIME						
MI-0425	D	5/9/2017	(Diesel fire pump engine)	Diesel	500	H/YR	(EUFIREPUMP in FGRICE).	practices.	56	T/YR	PERIOD	0			0		
111 0 123	2	5/5/201/	(Dieser ine pamp engine)	Dieses	300	12.11	(ECTRES ONE INTORIOS).	practices.	50	17110	TEIGOD				1		
	MEC NORTH,						A 300 HP diesel-fired emergency fire pump engine with				12-MO						
	LLC AND MEC		EUFPENGINE (South Plant):				a model year of 2011 or later, and a displacement of <30				ROLLING TIME						
*MI-0433	SOUTH LLC	6/29/2018	Fire pump engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	Good combustion practices.	85.6	T/YR	PERIOD	0			0		
	MEC NORTH, LLC AND MEC		EVERENCE OF A N. O.				A 300 HP diesel-fired emergency fire pump engine with a model year of 2011 or later, and a displacement of <30				12-MONTH ROLLING TIME						
*MI-0433	SOUTH LLC	6/29/2018	EUFPENGINE (North Plant): Fire pump engine	Diesel	300	HP	liters/cylinder. Equipped with a diesel particulate filter.	Good combustion practices	85.6	T/YR	PERIOD	0			l.		
-WII-0433	SOUTHELL	0/29/2018	The pump engine	Diesei	300	III	iners/cylinder. Equipped with a dieser particulate inter.	Good combustion practices.	65.0	1/1K	FERIOD	0			0		
	BELLE RIVER						A 399 brake HP diesel-fueled emergency fire pump										
	COMBINED						engine with a model year of 2011 or later, and a				12-MO						
	CYCLE POWER		EUFPENGINE: Fire pump				displacement of <10 liters/cylinder. The engine is an				ROLLING TIME						
*MI-0435	PLANT	7/16/2018	engine	Diesel	399	BHP	EPA Tier 3 certified engine subject to NSPS IIII.	Energy efficient design	86	T/YR	PERIOD	0			0		
	CRICKET																
	VALLEY																
	ENERGY			ultra low sulfur				Good combustion practice and				I				1	
NY-0103	CENTER	2/3/2016	Emergency fire pump	diesel	460	hp	1	efficient engine design.	115	TPY	MO	0			0		ļI
				1				E-vis-vert vi6-vi '				1					
	BEAUMONT			1				Equipment specifications and good combustion practices. Operation				1					
TX-0799	TERMINAL.	6/8/2016	Fire pump engines	diesel	0			limited to 100 hours per year.	72.16	T/YR		l _o			lo.	1	1
135-0777	T AND THE STATE OF	0.0/2010	. ne pamp engines	and the same of th	·		<u> </u>	manea to 100 nours per year.	72.10		12 MO				ľ		
	GREENSVILLE		DIESEL-FIRED WATER	1				Good Combustion			ROLLING	1					
*VA-0325	POWER STATION	6/17/2016	PUMP 376 bph (1)	DIESEL FUEL	0		FWP-1: 104.0 tons/year (12-month rolling total)	Practices/Maintenance	104	T/YR	TOTAL	0			0		
	KENAI																
	NITROGEN			1			2.7 MMBtu/hr Diesel Fired Well Pump. Installed in					1					
*AK-0083	OPERATIONS	1/6/2015	Diesel Fired Well Pump	Diesel	2.7	MMBtu/hr	1966.	Limited Operation of 168 hr/yr.	37.2	T/YR		0			0		
	IOWA			1							AVERAGE OF 3	1					
14 0105	FERTILIZER	10/26/2012	F: P	4:1 61	1,4	CALTI	1 @ 225 KW		1.55	CAN II	STACK TEST	l _o			l _o		
IA-0105	COMPANY IOWA	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	1.55	G/KW-H	RUNS AVERAGE OF 3	U	-		10		┼──┤
	FERTILIZER			1					1		STACK TEST	I			1	1	1
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	0.0001	G/KW-H	RUNS	0			0		
	IOWA				1.		The state of the s	g				-					
	FERTILIZER			1							ROLLING 12	1					
IA-0105	COMPANY	10/26/2012	Fire Pump	diesel fuel	14	GAL/H	rated @ 235 KW	good combustion practices	91	T/YR	MONTH TOTAL	0			0		<u> </u>
	CRONUS							Tier IV standards for non-road									
	CHEMICALS,			1				engines at 40 CFR 1039.102, Table	1			I			1	1	1
*IL-0114	LLC	9/5/2014	Firewater Pump Engine	distillate fuel oil	373	hp	1	7.	72	T/YR	l	[0			[0		

Table D-E-9 Greenhouse Gases (GHG) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

	1		1	1			I								I	1	
	FACILITY	PERMIT ISSUANCE				THROUGHPUT		CONTROL METHOD	EMISSION		AVG TIME	EMISSION		AVG TIME	STANDARD EMISSION		AVG TIME
RBLCID	NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNIT	PROCESS NOTES	DESCRIPTION	LIMIT 1	UNITS		LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
											12						
	ST. JOSEPH						THE TWO FIREWATER PUMP ENGINES,				CONSECUTIVE						
	ENEGRY		TWO (2) FIREWATER PUMP				IDENTIFIED AS FP01 AND FP02, EXHAUSTING	GOOD ENGINEERING DESIGN			MONTH						
*IN-0158	CENTER, LLC MIDWEST	12/3/2012	DIESEL ENGINES	DIESEL	371	BHP, EACH	THROUGH TWO (2) VENTS. OPERATION LIMITED TO 500 HOURS PER YEAR.	AND FUEL EFFICIENT DESIGN	172	T/YR	PERIOD	0			0		
	FERTILIZER						INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0173	CORPORATION	6/4/2014	FIRE PUMP		500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	0			0		
	OHIO VALLEY		DIESEL-FIRED														
	RESOURCES,		EMERGENCY WATER					GOOD COMBUSTION									
*IN-0179	LLC	9/25/2013	PUMP	NO. 2 FUEL OIL	481	BHP	ANNUAL OPERATION LIMITED TO 200 HR,	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	0			0		
	MIDWEST FERTILIZER						OPERATION LIMITED TO 500 HOURS PER YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION									
*IN-0180	CORPORATION	6/4/2014	FIRE PUMP		500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	0			0		
												_					
	NINEMILE POINT																
	ELECTRIC GENERATING							PROPER OPERATION AND									
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIECEI	350	НР		GOOD COMBUSTION PRACTICES	163	LB/MMBTU					163	LB/MMBTU	
LA-0234	PLANI	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	330	пг		PRACTICES	103	LB/MMB1U		0			103	LB/MMB1U	
	NINEMILE POINT																
	ELECTRIC							PROPER OPERATION AND									
	GENERATING							GOOD COMBUSTION									
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	0.0014	LB/MMBTU		0			0.0014	LB/MMBTU	
	NINEMILE POINT																
	ELECTRIC							PROPER OPERATION AND									
	GENERATING							GOOD COMBUSTION									
LA-0254	PLANT	8/16/2011	EMERGENCY FIRE PUMP	DIESEL	350	HP		PRACTICES	0.0061	LB/MMBTU		0			0.0061	LB/MMBTU	
	SALEM HARBOR STATION																
	REDEVELOPMEN						≤ 300 hours of operation per 12-month rolling period										
*MA-0039	T	1/30/2014	Fire Pump Engine	ULSD	2.7	MMBtu/hr	S in ULSD: ≤0.0015% by weight		162.85	LB/MMBTU		0			0		
	Ī		INTERNAL COMBUSTION														
	CPV ST		ENGINE - EMERGENCY														
MD-0040	CHARLES	11/12/2008	FIRE WATER PUMP	DIESEL	300	HP			3	G/B-HP-H		0			0		
							This is a diesel fuel fired emergency backup fire mump. It has a capacity of 315 hp, nameplate, and uses diesel										
							fuel ASTM D975 Grade 2-D S15.										
	THETFORD		EU-FPENGINE: Diesel fuel				Ultra low sulfur diesel fuel (15ppmw); 100 hours per										
	GENERATING		fired emergency backup fire				year operation for maintenance and readiness testing.	Proper combustion design and ultra			12-MO. ROLL						
*MI-0410	STATION	7/25/2013	pump	diesel fuel	315	hp nameplate	NSPS IIII and NESHAP ZZZZ.	low sulfur diesel fuel.	15.6	T/YR	TIME PERIOD	0			0		
	HOLLAND						A 165 hoursepower (hp) diesel-fueled emergency engine										
	BOARD OF						manufactured in 2013, iwth a heat input of 1.35	1									
	PUBLIC WORKS -						MMBTU/hr. Powers a fire pump used for back up				12-MO						
	EAST 5TH		Emergency Engine Diesel				during an emergency (EUFPENGINE). Restricted to				ROLLING TIME						
*MI-0412	STREET	12/4/2013	Fire Pump (EUFPENGINE)	Diesel	165	HP	500 hours/year on a 12-month rolling time period basis.	Good combustion practices	0.29	T/YR	PERIOD	0			0		
	OREGON CLEAN ENERGY						223.8 kW. Emergency fire pump engine restricted to	1			PER ROLLING						
*OH-0352	CENTER	6/18/2013	Emergency fire pump engine	diesel	300	HP	500 hours of operation per rolling 12 months.	1	87	T/YR	12-MONTHS	l ₀			l ₀		
51. 0552						1	The Permittee shall select and install any of the turbine					-			Ť		
	1						options listed below (or newer versions of these turbines	8									
	1						if the	1					1				
	1						Department determines that such newer versions	1									
	1						achieve equivalent or better emissions rates and exhaust	1									
	1						parameters)	1			1	1					
	1						General Electric 7FA (GE 7FA) Siemens SGT6-5000F (Siemens F)	1									
	1						Mitsubishi M501G (Mitsubishi G)	1			12-MONTH		1				
	HICKORY RUN						4. Siemens SGT6-8000H (Siemens H)	1			ROLLING						
	ENERGY		COMBINED CYCLE UNITS				The emissions listed are for the Siemens SGT6-8000H	1			TOTAL FOR						
*PA-0291	STATION	4/23/2013	#1 and #2	Natural Gas	3.4	MMCF/HR	unit.		3665974	T/YR	BOTH UNITS	0			0		
	HICKORY RUN			ULTRA LOW													
an a 0201	ENERGY STATION	4/23/2013	EMERGENCY FIREWATER PUMP	SULFUR	3.25	MMBTU/H	EMERGENCY FIREWATER PUMP (450 BHP)	1	33.8	TAZD	12-MONTH ROLLING BASIS	l.			l _o		
*PA-0291	DIAHON	4/23/2013	PUMP	DISTILLATE	3.43	IMMB1U/H	JEMERGENCY FIREWATER PUMP (450 BHP)		33.8	T/YR	ROLLING BASIS	Įυ	1		Įν	1	

Table D-E-9 Greenhouse Gases (GHG) RBLC Search - Fire Water Pump Invenergy, LLC - Allegheny County Energy Center Project

	1		1														
		PERMIT													STANDARD		
RBLCID		ISSUANCE DATE	PROCEED NAME	DDYS A DAY EXTEX	THEOLOGICAL	THROUGHPUT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNITS	AVG TIME CONDITION	EMISSION LIMIT 2	UNITS	AVG TIME CONDITION	EMISSION	UNITS	AVG TIME CONDITION
RBLCID	NAME	DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	UNII	PROCESS NOTES	DESCRIPTION	LIMIT I	UNITS	CONDITION	LIMIT 2	UNITS	CONDITION	LIMIT	UNITS	CONDITION
	BERKS HOLLOW																
	ENERGY ASSOC																
	LLC/ONTELAUN																
*PA-0296	EE ENERGY	12/17/2013	Emergency Firewater Pump	Diesel	16	Gal/hr			19	T/YR		0			0		
	ANSWERS																
	ARECIBO																
	PUERTO RICO																
	RENEWABLE						The Emergency Fire Pump is rated at 335 BHP and										
	ENERGY						limited to 500 hr/yr (emergency operations and testing										
*PR-0009	PROJECT	4/10/2014	Emergency Diesel Fire Pump	LILSD Fuel Oil #2	0		and maintenance, combined).		91.3	T/YR		0			0		
110000	I KOJECI	010/2011	Emergency Dieser Fire Fump	CLOD Tuel On #2			Shall not exceed 100 hours of non-emergency operation		71.5			1			ı -		
	GUADALUPE						on a 12-month rolling basis and shall be operated and										
	GENERATING						maintained in accordance with the manufacturer's										
*TX-0753	STATION	12/2/2014	Fire Water Pump Engine	ULSD	1.92	MMBtu/hr (HHV)	recommendations.		15.71	T/YR		0			0		
						` /											
							Indeck will be equipped with one nominally rated 175-										
							hp diesel-fired pump engine to provide water in the										
							event of a fire. The fire water pump will operate a										
	INDECK						maximum of 52 hours of non-emergency operation on a										
	WHARTON						12-month rolling basis for testing and maintenance. The				12-MONTH						
	ENERGY						fire water pump engine emissions represent 0.003% of				ROLLING						
*TX-0757	CENTER	5/12/2014	Firewater Pump Engine	ULSD	175	hp	the total facility-wide GHG emissions.		5.34	T/YR	TOTAL	0			0		
	ECTOR COUNTY ENERGY										12-MONTH ROLLING						
*TX-0758		8/1/2014	r: . n r :	n: i					_	T/YR	TOTAL						
*1X-0/58	CENTER	8/1/2014	Firewater Pump Engine	Diesel	0)	I/YK	TOTAL	0		_	0		
	GATEWAY																
	COGENERATION																
	1, LLC - SMART			diesel (ultra low							12 MO						
VA-0319		8/27/2012	FIRE WATER PUMP	sulfur)	1.86	MMBTU/H	500 H/Yr operation	Fuel-efficient design	30.5	T/YR	ROLLING AVG	0			0		
	MOUNDSVILLE																
	COMBINED																
	CYCLE POWER	1	1		1				1				1				
*WV-0025	PLANT	11/21/2014	Fire Pump Engine	Diesel	251	HP	Limited to 100 Hours/year.		309	LB/H		0	1		0		
	ROCK SPRINGS						<u> </u>										
	FERTILIZER				1			limited to 500 hours of operation				1					
*WY-0076	COMPLEX	7/1/2014	Fire Water Pump Engine	Diesel	200	horsepower	limited to 500 hours of operation	per year	58	T/YR	ANNUAL	0			0		
	ROCK SPRINGS				1							1					
I	FERTILIZER	l	L	L	l	l.	L	limited to 500 hours of operation			1	I.			1.		
*WY-0076	COMPLEX	7/1/2014	Fire Water Pump Engine	Diesel	200	horsepower	limited to 500 hours of operation	per year	58	T/YR	ANNUAL	0	-	_	0		
	MIDWEST FERTILIZER				1		OPERATION NOT TO EXCEED 500 HOURS PER YEAR, INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION				1					
any 0100		6/4/2014	DAW WATER BUMB	DIESEL, NO. 2	500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	ا			10		
*IN-0180	MIDWEST	0/4/2014	RAW WATER PUMP	DIESEL, NO. 2	300	nr	OPERATION NOT TO EXCEED 500 HOURS PER	PRACTICES	327.4	G/B-HP-H	3-HK AVEKAGE	10	-		T ^U		-
	FERTILIZER	l	1		1		YEAR. INSIGNIFICANT ACTIVITY, WILL NOT BE	GOOD COMBUSTION	1				1				
*IN-0173	CORPORATION	6/4/2014	RAW WATER PUMP	DIESEL, NO. 2	500	HP	TESTED.	PRACTICES	527.4	G/B-HP-H	3-HR AVERAGE	ا ا	1		0		
414-01/3	Russell City	0/7/2014	KAW WATER FUNIF	DIESEL, NO. 2	500	***	ILSILD.	TRACTICES	321.9	G/D-11F-11	J-IIK AVEKAGE	1	 	+	ľ		
	Energy Company,				1							1					
	LLC		Fire Pump	ULSD	300	HP			7.6	T/YR	12-month rolling	1					
	Kalama Energy			Ultra Low Sulfur					1		- month rolling						
	Center		Fire pump engine	Diesel	240	bhp			7.1	T/YR	12-month Rolling	:					
l-				-	•									•			•